Water Resources Data
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CALENDAR FOR WATER YEAR 1989

1988

OCTOBER

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March 3 1849

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Water Resources Data
Georgia
Water Year 1989

by W.R. Stokes, III, R.D. McFarlane, and G.R. Buell

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-89-1
Prepared in cooperation with the State of Georgia
and with other agencies

DEPARTMENT OF THE INTERIOR

MANUEL LUJAN, JR, Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Georgia, write to

District Chief, Water Resources Divison
U.S. Geological Survey
6481-B Peachtree Industrial Boulevard
Doraville, Georgia 30360

1990

PREFACE

This volume of the annual hydrologic data report of Georgia is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Georgia are contained in 1 volume.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

George A. Bailey
Carolyn A. Casteel
John S. Clarke
Robert Coffin
Darrell D. Dorminey
Gregory B. Donley
John H. Doss
James D. Everett
Suzie C. Grams
Glen W. Hess
Charles N. Joiner
Stephen H. Jones
Charles A. Lee
Ronald T. Nichols
Howard H. Persinger, Jr.
Mark E. Reynolds
James E. Sohm
Welby L. Stayton
Rodney L. Thompson
John W. Tyler
Blaine T. White

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Water resources data for the 1989 water year for Georgia consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; ground-water levels; and precipitation quality. This report contains discharge records of 118 gaging stations; stage for 27 gaging stations; stage and contents for 18 lakes and reservoirs; water quality for 105 continuing-record stations; peak stage and discharge only for 73 crest-stage partial-record stations and 8 miscellaneous sites; water levels of 25 observation wells; and water quality for 1 precipitation-quality site. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Georgia.

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SURFACE WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[Leters after station names designate type of data: (d) discharge; (g) gage height; (c) chemical; (m) microbiological; (s) sediment; and continuously monitored water-quality characteristics; (k) specific conductance; (h) pH; (t) water temperature; and (o) dissolved oxygen]

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Well 304943082213701, Local number 27E004 478

CHATHAM COUNTY

Well 315950081161201, Local number 35P094 479
Well 320021081124801, Local number 36Q020 480
Well 320122080510204, Local number 39Q003 481
Well 320202080541201, Local number 38Q002 482
Well 320530081085001, Local number 36Q008 483

COOK COUNTY

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DECATUR COUNTY

Well 305736084355801, Local number 09F520 485

DOUGHERTY COUNTY

Well 313532084203501, Local number 11L002 486
Well 313554084062601, Local number 13L002 487
Well 313748084002901, Local number 13L003 488

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Well 334207084254801, Local number 10DD02 489

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Well 311007081301702, Local number 33H133 490

LAURENS COUNTY

Well 322652083033001, Local number 21T001 491

LIBERTY COUNTY

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Well 315214081235301, Local number 34N089 493

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LOWNDES COUNTY

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Well 331507084171801, Local number 11AA01 499

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Well 313253081433502, Local number 32L015 500
Well 313701081543501, Local number 30L003 501

WORTH COUNTY

Well 313146083491601, Local number 15L020 502

PRECIPITATION STATIONS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED

PRECIPITATION-QUALITY RECORD

TIFT COUNTY

Tifton-ARS NADP/NTN station near Tifton 503

WATER RESOURCES DATA – GEORGIA, 1989

INTRODUCTION

Water resources data for the 1989 water year for Georgia consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; ground-water levels; and precipitation quality. This report contains discharge records of 114 gaging stations; stage for 26 gaging stations; stage and contents for 18 lakes and reservoirs; water quality for 105 continuing-record stations; water quality for 4 miscellaneous sites; peak stage and discharge only for 73 crest-stage partial-record stations and 8 miscellaneous sites; water levels of 25 observation wells; and water quality for 1 precipitation-quality site. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Georgia.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological water-supply papers entitled, "Surface-Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperature, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 41, Box 25424, Denver, CO 80225.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis prior to the two 5-year series water-supply papers which cover this period. The data contained in the water-supply papers are considered the official record. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report GA-89-1." These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Cpoommerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (404) 986-6860.

COOPERATION

The U.S. Geological Survey and organizations of the State of Georgia have had cooperative agreements for the systematic collection of streamflow records since 1896, and for water-quality records since 1937. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Georgia Department of Natural Resources, J. Leonard Ledbetter, Commissioner
Georgia Department of Transportation, Hal Rives, Commissioner
Bibb County
Glynn County
Gwinnett County
City of Albany
City of Brunswick
City of Covington
City of Helena
City of Moultrie
City of Thomaston
City of Thomasville
City of Valdosta
Albany Water, Gas and Light Commission
Clayton County Water Authority
Macon-Bibb County Water and Sewerage Authority

Assistance in the form of funds and/or services was given by the following Federal agencies:

Corps of Engineers, U.S. Army
U.S. Environmental Protection Agency
Federal Highway Administration, U.S. Department of Transportation
Agricultural Research Service, U.S. Department of Agriculture
Tennessee Valley Authority
National Weather Service, NOAA, U.S. Department of Commerce

The following organizations aided in collecting records:

Georgia Power Company
Oglethorpe Power Company
Crisp County Power Commission
Alabama Power Company

SUMMARY OF HYDROLOGIC CONTIDIONS

Streamflow

Runoff for the 1989 water year varied substantially across the State. For unregulated streams having more than 10 years of streamflow record, the ratio of runoff during the 1989 water year to long-term runoff ranged from 0.1 at Suwannee River near Fargo, in southeastern Georgia, to about 1.6 at Holly Creek near Chatsworth, in the northwestern part of the State. The runoff ratio for a large number of streams in Georgia ranged between 0.6 and 0.9. In the northwestern part of the State, the ratio for most streamflow stations was between 1.1 and 1.6, while the ratio for stations in southeastern Georgia was generally 0.4 or less.

Except for the northwestern corner, where monthly flows for January through April averaged near 10 percent above normal, monthly mean runoff across the northern part of the State was below normal from October through May; ranging from an average of about 35 percent of normal for December to about 85 percent of normal for March. In this area, mean runoff for the remainder of the year was well above normal, ranging from about 120 percent of normal for August to more than 200 percent of normal for June and July. In central Georgia, monthly mean flows were below normal for all months except July and September. Monthly mean flows for December through February averaged only about 35 percent of normal, while those for April, June, and August were approximately 80 percent of normal. Mean flow for July averaged about 45 percent above normal and that for September was about 10 percent above normal. As usual, the variability of monthly mean flows across the southern part of the State was substantial. Flows ranged from an average of about 15 percent of normal in February to about 175 percent of normal in July. Mean flows for all months except June, July, and September were below normal. Figure 1 shows monthly and yearly mean discharges for the 1989 water year at three representative long-term gaging stations and the median of monthly and yearly mean discharges for 1951-80.

During 1989, drought conditions, prevalent for so long, began to deminish. Only in the southeastern part of the State did very low flows persist throughout most of the year. Although runoff in this area was the lowest in the State, the recurrence intervals of minimum daily flows were only 5 years or less. Runoff for most stations in the remainder of the State was higher than that for stations in the southeastern part, but the minimum daily flows for many of these stations were lower. In early to mid-October, before flows generally began to increase, several stations scattered throughout the remainder of the State experienced minimum daily flows with recurrence intervals ranging from 10 to 30 years.

Although flows began to increase over much of the State during the year, there was little or no flooding. The continuous-record gaging station, Kettle Creek near Washington, experienced a peak flow with a 5-year recurrence interval. The peak flow at all other continuous and partial record stations was less than a 5-year event. The recurrence interval of the peak flow at several stations was approximately 2 years, but for most stations it was substantially less.

Water Quality

The quality of Georgia's surface waters generally is good. A statistical summary of surface-water quality for several constituents measured at 15 sites in Georgia is presented in table 1. Sites selected for this summary were chosen to represent a wide range of basin characteristics, land use, and water use throughout the State. Eight of these 15 sites are part of an 84-station cooperative network operated by the U.S. Geological Survey and the Georgia Department of Natural Resources, Environmental Protection Division; five sites are part of the Geological Survey's National Stream-Quality Accounting Network (NASQAN) program; one site is part of the Geological Survey's Hydrologic Bench-Mark (HBM) program; and one site is part of the Georgia District's water-quality monitoring network for small- to medium-sized watersheds in relatively undisturbed areas.

Surface-water-quality conditions during the 1989 water year were more representative of long-term conditions than noted for the 1988 water year. This is due primarily to the fact that 1989 streamflows were much nearer normal than the extreme low flows experienced in 1988. Of the stations listed in table 1, notable departures of 1989 means from period-of-record means are in evidence for specific conductance (SC) at stations 02202500 (+25 percent), 02314500 (+26 percent), 02337170 (+44 percent) and 02352500 (+47 percent). However, an examination of the temporal patterns in SC measurements at these stations indicates that the observed changes are representative of long-term trends only at stations 02202500, 02337170, and 02352500. Flows at station 02314500 were well below normal in 1989 accounting for its increased SC values. Total inorganic nitrogen (TIN) concentrations changed more than 25 percent at stations 02177000, 02226160, 02314500, 02318960, 02350600, 02352500, and 02384748. A possible practical significance is indicated only for stations 02226160, 02318960, 02352500, and 02384748 where increases may be associated with urban, industrial, and(or) agricultural growth. TIN concentrations at the other stations with notable changes are near the detection limit for the analytical methods and analytical error could easily encompass the observed changes in concentration. Total phosphorus (TP) concentrations changed more than 25 percent at all stations except 02350600. However, as with TIN, only at stations 02318960, 02337170, and 02387050 are TP concentrations high enough for the observed changes in TP concentrations to show any practical significance. Increased TP concentrations at stations 02318960 (+32 percent) and 02337170 (+54 percent) may be related to urban growth. The large decrease in mean TP concentration at station 02387050 (-67 percent) may be related to improved waste-treatment facilities in the basin. Total organic carbon (TOC) concentrations in surface waters are typically highly variable and generally low (less than 10.0 milligrams per liter) except in streams draining boglands and swampy areas where acidic conditions prevail. Both historical and current TOC concentrations for stations in table 1 reflect this pattern. Stations 02228000, 02314500, and 02318960 drain acidic wetlands and have much higher TOC concentrations than the other stations.

Water-quality profiles of the Chattahoochee River

Specific conductance (SC), total inorganic nitrogen (TIN), and total phosphorus (TP) measured in samples collected along a 450-mile reach of the Chattahoochee River during the 1989 water year are compared to similar data collected during water years 1976-88 (figure 2). The 1989 data bars show the maximum, median, and minimum values whereas the 1976-88 data bars identify the 90th percentile, median, and 10th percentile values.

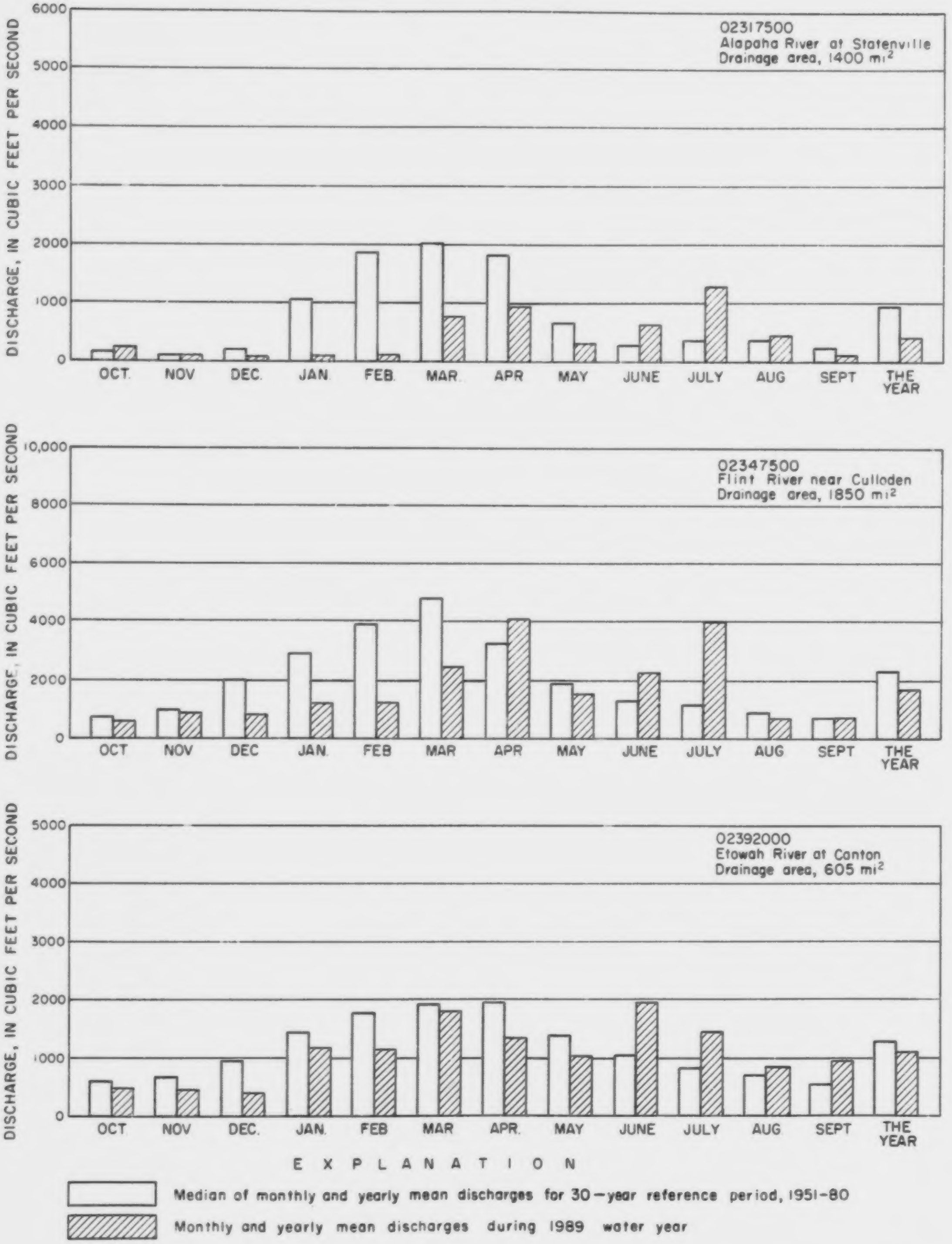


Figure 1.—Comparison of discharge at three representative long-term gaging stations during 1989 water year with median discharge for 30-year reference period, 1951-80.

Table 1.--Water-quality characteristics of Georgia surface water at selected periodic sampling stations

[N, number of samples; mean pH values computed from antilogarithms]

Stream and location	Downstream order number	Sample period (water years)	pH (standard units)		Specific conductance (μS/cm at 25°C)		Alkalinity (mg/L as $CaCO_3$)		Nitrogen, inorganic total (mg/L as N)		Phosphorus, total (mg/L as P)		Carbon, organic total (mg/L as C)	
			N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean
Chattooga River	02177000	1968-89	209	6.7	197	14	186	5.4	189	0.08	194	0.03	166	2.3
near Clayton		1989	12	6.7	12	15	12	5.0	11	.12	12	.09	11	1.9
Ogeechee River	02202500	1974-89	176	6.5	167	80	153	24	--	--	163	.05	--	--
near Eden		1989	6	7.3	6	100	6	28	--	--	6	.09	--	--
Falling Creek	02212600	1968-89	189	6.7	190	119	175	51	--	--	134	.07	--	--
near Juliette		1989	4	7.7	4	140	4	54	--	--	4	.03	--	--
North Oconee River	02217740	1974-89	164	7.0	164	57	152	21	164	40	163	.05	159	3.0
at Athens		1989	4	7.1	4	69	4	24	4	.45	4	.15	3	2.2
Altamaha River	02226160	1974-89	243	6.8	248	133	232	30	205	.31	240	.08	180	8.7
near Everett		1989	18	7.2	18	150	18	33	16	.44	18	.12	12	9.0
Satilla River	02228000	1968-89	198	4.9	191	58	176	4.4	128	.26	189	.10	108	19
at Atkinson		1989	8	5.2	8	72	8	6.4	4	.30	8	.13	4	24
Suwannee River	02314500	1968-89	207	4.0	193	57	136	1.1	179	.18	191	.04	162	39
at Fargo		1989	12	3.9	12	72	11	1.0	12	.07	12	.07	11	46
Withlacoochee River	02318960	1975-89	174	6.4	173	127	160	42	173	38	174	.18	169	11
near Clyattsville		1989	12	7.0	12	157	12	50	12	56	12	.24	11	12
Chattahoochee River	02337170	1968-89	355	6.5	386	85	198	21	382	1.4	397	.47	350	5.8
near Fairburn		1989	15	6.9	15	122	15	23	12	1.6	15	.73	15	5.4
Chattahoochee River	02343801	1983-89	42	7.2	42	75	42	19	--	--	42	.04	--	--
at Andrew's L&D		1989	6	7.3	6	86	6	22	--	--	6	.02	--	--
near Columbia														
Kinchafoonee Creek	02350600	1970-89	79	6.5	72	34	73	9.4	69	.22	73	.03	66	4.7
at Preston		1989	2	6.8	2	36	2	9.0	2	.14	2	.03	2	8.4
Flint River	02352500	1968-89	116	7.1	101	76	95	24	94	.37	99	.09	70	5.0
at Albany		1989	4	7.3	4	112	3	28	3	.76	3	.15	3	5.5
Flint River	02353000	1968-89	129	7.3	102	110	98	40	--	--	102	.08	--	--
at Newton		1989	6	7.6	6	118	6	37	--	--	6	.10	--	--
Conasauga River	02384748	1974-89	177	7.4	176	104	164	46	173	.25	174	.05	170	3.4
near Dalton		1989	12	7.3	12	105	12	45	11	.36	12	.08	11	4.1
Conasauga River	02387050	1974-89	174	7.3	173	171	162	60	173	.65	173	.67	169	6.4
near Resaca		1989	12	7.3	12	148	12	52	12	.59	12	.22	11	5.6

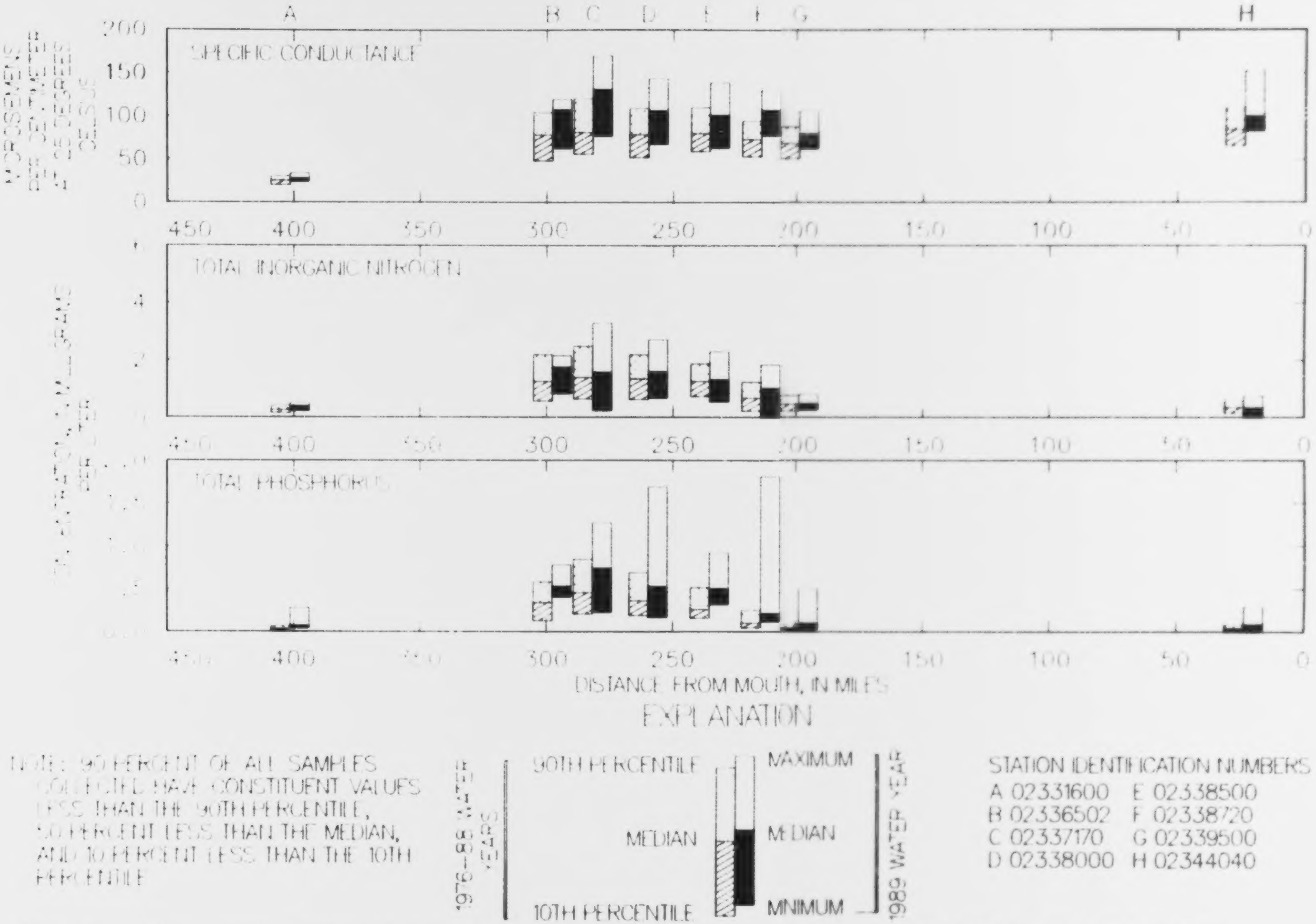


Figure 2. River-reach profiles of specific conductance, total inorganic nitrogen, and total phosphorus for the Chattahoochee River.

Station 02331600 (A) is in the headwaters of the Chattahoochee River drainage area upstream from Lake Lanier. Both historic and present-day median values for SC, TIN, and TP are low; these values are representative of surface-water quality in the Blue Ridge physiographic province of northeastern Georgia. The downstream cyclic patterns of constituent concentrations between stations 02336502 (B) and 02344040 (H) (both historic and present-day water year data) show the combined effects of urban use, increased drainage area, and impoundment on river quality. Increases in median SC, TIN, and TP values between stations 02331600 (A) and 02337170 (C) most likely are attributed to discharge from waste-treatment facilities in the Atlanta metropolitan area. The concentrations of TIN and TP downstream from Atlanta were notably higher in 1989 than during the 1976-88 historical period. The increases are probably due to a lowered dilution capacity associated with below-normal flows in the Chattahoochee River and higher waste-treatment loads from the Atlanta area in 1989 as compared to the 1976-88 reference period. Median SC values remained relatively constant between stations 02338000 (D) and 02344040 (H); however, median TIN and TP values decreased between stations 02338000 (D) and 02344040 (H). These decreases may be attributed to 1) dilution by increased streamflow (no major waste-water discharges occur in this reach), 2) uptake of nitrogen and phosphorus by biota in the River and in West Point Lake, which is between stations 02338500 (E) and 02339500 (G), and 3) sedimentation of particulate phosphorus in West Point Lake.

Water-quality profiles of the Ocmulgee and Altamaha Rivers

River-reach profiles of the Ocmulgee and Altamaha Rivers (figure 3) show the effects of waste-water discharge on river quality. Municipal waste water discharged to the Ocmulgee River between stations 02212950 (B) and 02213700 (C) (Macon metropolitan area) contributed to increased TIN and TP concentrations observed at stations 02213700 (C) and 02214265 (D). As with the Chattahoochee River, the generally declining TIN and TP concentrations downstream from station 02213700 (C) reflect the effects of both dilution by increased streamflow and uptake of nutrients by biota along the Ocmulgee and Altamaha Rivers. Median SC values for 1989 were above the 1976-88 medians for all stations shown.

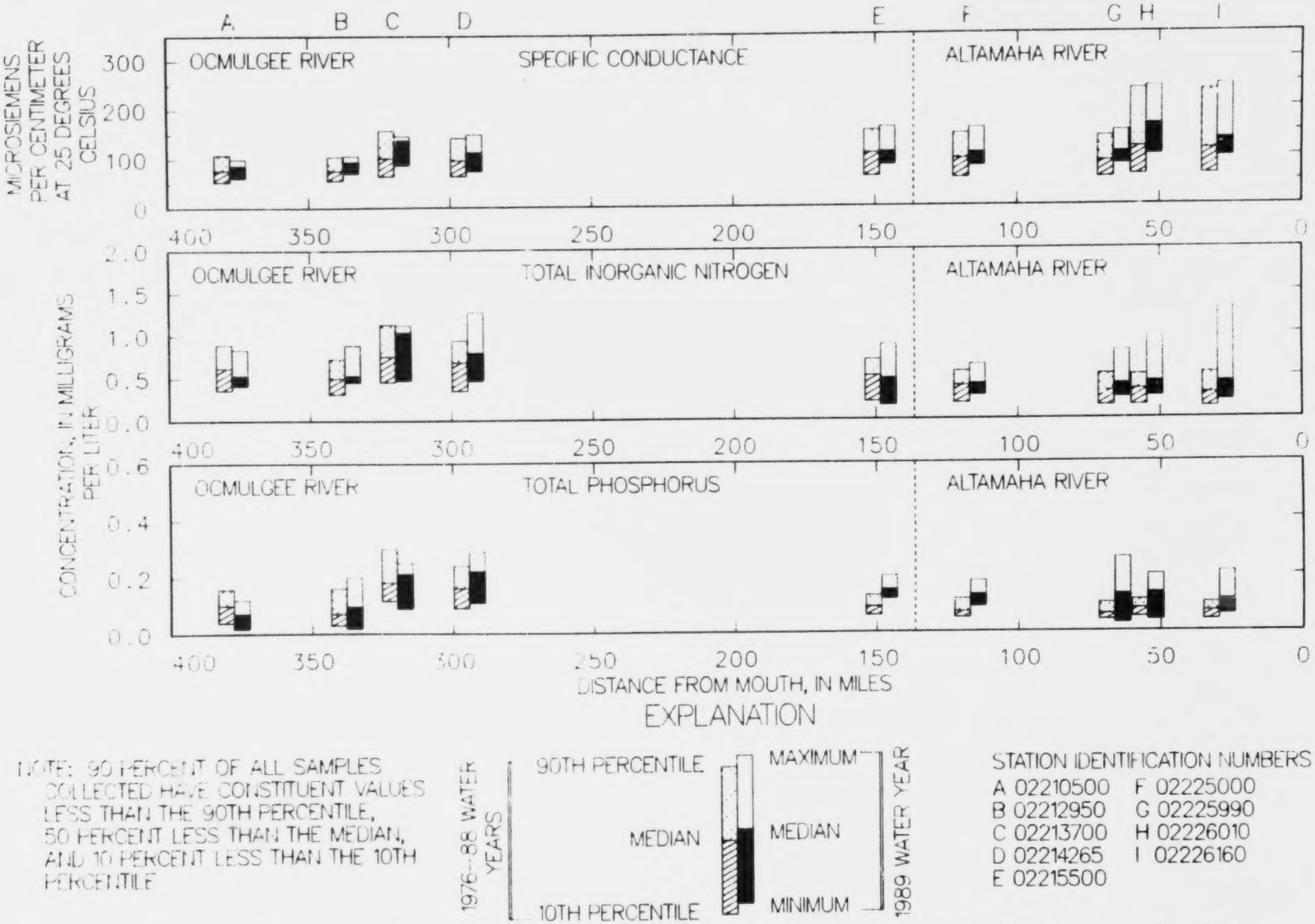
Ground Water

Mean ground-water levels determined from 25 observation wells ranged from 2.9 feet lower to 6.6 feet higher during the 1989 water year than during the 1988 water year. The drought that occurred during the 1988 water year continued through about May 1989, causing further decline of ground-water levels. Wide-spread rainfall beginning in June caused ground-water levels to begin to recover

Mean water levels in the crystalline rock aquifers of northern Georgia were from 0.5 foot to 1.1 feet higher in 1989 than in 1988. Along the coast, mean water levels in the Floridan aquifer system were from about the same to 2.5 feet lower in the 1989 water year than in the 1988 water year. In Savannah, mean water levels were from 0.4 foot to 2.5 feet lower than in 1988. In the Riceboro, Jesup, and Okefenokee Swamp areas, mean water levels were from about the same to 1.4 feet lower than in 1988, and record lows were measured in 5 wells in August and September of 1989 Mean water levels in the Brunswick area were 2.0 feet lower than in 1988. The mean water level in the shallow water-table aquifer at Savannah was about the same as in 1988.

In the east-central and south-central parts of the State, mean water levels in the Floridan aquifer system were from 0.5 foot lower to 2.5 feet higher in the 1989 water year than in the previous year. In the southwestern part of the State, mean water levels in the Floridan aquifer system were from about the same to 2.9 feet lower in the 1989 water year than during the previous water year. Mean water levels in the Clayton aquifer were from 2.0 to 6.6 feet higher than in 1988.

Additional information concerning ground-water-level fluctuations in the State can be found in open-file reports entitled, "Ground-Water Data for Georgia, 1988," which includes data for calendar year 1988, and "Ground-Water Conditions in Georgia, 1989," which includes data for calendar year 1989.



NOTE: 90 PERCENT OF ALL SAMPLES COLLECTED HAVE CONSTITUENT VALUES LESS THAN THE 90TH PERCENTILE, 50 PERCENT LESS THAN THE MEDIAN, AND 10 PERCENT LESS THAN THE 10TH PERCENTILE

STATION IDENTIFICATION NUMBERS

A 02210500	F 02225000
B 02212950	G 02225990
C 02213700	H 02226010
D 02214265	I 02226160
E 02215500	

Figure 3.--River-reach profiles of specific conductance, total inorganic nitrogen, and total phosphorus for the Ocmulgee and Altamaha Rivers.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in national or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are to (1) obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis and reporting such that the data may be used for, (2) describe the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detect changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) provide a nationally consistent data base useful for water-quality assessment and hydrologic research.

National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the spatial and temporal variability of the composition of atmospheric deposition which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP). The NADP was initiated by the North Central Region of the State Agricultural Experiment Stations (U.S. Department of Agriculture) to address the problem of atmospheric deposition and its effects on agriculture, forest, rangelands, and fresh-water streams and lakes.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF RECORDS

The surface-water and ground-water records published in this report are for the 1989 water year that began on October 1, 1988, and ended September 30, 1989. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and contents data for lakes and reservoirs, water-quality data for surface water, ground-water-level data, and precipitation-quality data. The locations of the stations and wells where the data were collected are shown in figures 5-9. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station in this report, whether streamsite, well, or other site, is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The system used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for surface-water stations and the "latitude-longitude" system is used for wells and other off-stream sites.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention show in stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete number for each station, such as 02351890, which appears just to the left of the station name includes the two-digit Part number "02" plus the downstream-order number "351890", which can be from six to 12 digits. Most of the station-identification numbers in this report are eight digits; however, up to 14 digit numbers are permissible.

Latitude-Longtitude System

The identification numbers for wells and other off-stream sites, such as rain gages, are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid as shown in figure 4. This site-identification number, once assigned, is a pure number, and has no location significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description.

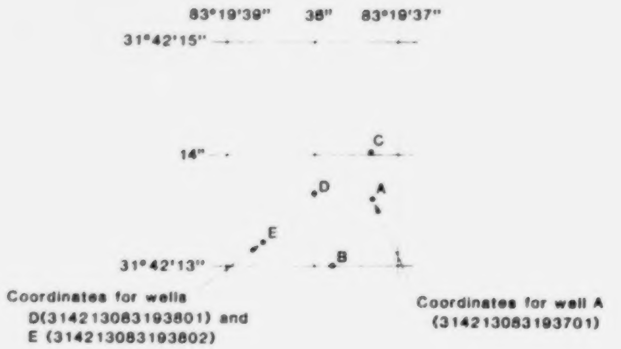


Figure 4.–System for numbering wells and other off-stream sites (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of stage or discharge are those obtained using a continuous or specified time-interval stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Occasionally, other parameters such as tainter gate openings and stream velocity will also be needed to compute discharges. Stations for which daily mean discharges or gage heights are published are referred to as "daily stations".

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscelleaneous peak discharge at selected sites or of measurements from specific studies, such as low-flow seepage studies, may be considered as partial records and these are presented under the appropriate heading. Locations of all complete-record and crest-stage partial-record stations for which data are given in this report are shown in figures 5, 6, and 7.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relations between stage and discharge. These data, together with supplemental information, as weather records, are used to compute daily discharges.

Continuous records of stage are obtained with devices that record stage values at selected time intervals or with analog recorders that trace continuous graphs of stage. Measurements of discharge are made with current meters using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter mesurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted- opening measurements, and computations of flow-over-dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method is also used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations the stage-discharge relations are affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relations are affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous and following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Computation of records of lake or reservoir contents requires a stage-contents relation which can be obtained from surveys, curves, or tables defining this relationship. The application of stage to the stage-contents curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-contents relation changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relation.

Data Presentation

The records published for each gaging station consist of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record; average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or stage. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October, 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.–Drainage areas are measured using the most accurate maps available. Because the type of maps available at the time of determination of drainage area varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps and funds become available.

PERIOD OF RECORD.–This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.–Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision does not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.–The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.–All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items.

COOPERATION.–Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

AVERAGE DISCHARGE.–The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at a station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum stages and maximum and minimum discharges. Unless otherwise qualified, the maximum discharge is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE THE PERIOD OF RECORD.–Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtain the record from published data reports may wish to contact the District office to determine if the published records were revised after the station was discontinued. Data obtained from computer files for discontinued stations will be current since these files are updated with appropriate revisions at the time revisions are made.

Manuscript information for lake or reservoir stations differs slightly from that for stream and stage stations. A paragraph describing the dam, beginning storage date, if known, and pertinent contents and elevation information is included in the description. Normally there is no "REMARKS" section. "EXTREMES" sections are presented only for those reservoirs where daily or more frequent pool elevations are available.

The daily table for stream-gaging stations gives mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and(or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

The daily table of gage-height stations gives mean gage-height for each day. In the monthly summary, the line headed "MEAN" gives the average gage height during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily gage heights, respectively, for the month.

Data for reservoirs are presented following the continuous-station data for the basin in which they are located. Monthend elevations, contents, and monthly and yearly change in contents are presented in tabular form following the reservoir station description.

Data collected at partial-record stations follow the information for continuous-record sites. If collected, data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The data contained in the partial-record station tables are often supplemented by information gathered at miscellaneous sites which are neither continuous record nor partial-record stations. This information is presented in tables similar to those for the partial-record stations and the table headings explain the data which are shown.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records depends primarily on: (1) The stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage, measurement of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS". "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned, are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to the nearest whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures for values more than 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, and increase or decrease in evaporation due to artificial causes or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Georgia District office. Also, most of the daily mean discharges are in computer-readable form, and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District office.

The National Water Data Exchange (NAWDEX), U.S. Geological Survey, Reston, VA 22092, indexes the water data available from more than 400 organizations, and serves as a focal point to help those in need of water data to determine what information is available. Information and assistance on how to use this system can be obtained from the Georgia District office.

Records of Surface-Water Quality

Records of surface-water quality are usually obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A **continuing-record station** is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, quarterly or semi-annually. A **partial-record station** is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A **miscellaneous station** is a site other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records", as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 8.

On-Site Measurements and Sample Collection

A primary concern of the water-quality data acquisition efforts of the U.S. Geological Survey is how well the data collected represent on-site water-quality conditions. Measurements of unstable variables such as water temperature, pH, and dissolved oxygen are made on site when samples are taken to assure that the reported readings accurately represent the water-quality at the time of sampling. Standard Geological Survey procedures for the collection, treatment, and if necessary, shipment of samples prior to laboratory analysis are also followed to assure that the constituents for which these samples are analyzed have changed minimally from their on-site values. Documentation of these representative sampling procedures is given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; and Book 5, Chaps. A1, A3, and A4. These references are listed at the conclusion of the introductory section of this report. Supplemental information to that found in the listed references may be obtained from the U.S. Geological Survey, District office.

One sample can adequately define the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (NASQAN) program are obtained from at least several verticals. Whether samples collected at other sites are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

Water Temperature

Water temperatures are measured at the water-quality stations, and are also obtained at the time of discharge measurements for water-discharge stations. At stations where recording instruments are used, maximum and minimum temperatures for each day are published. Daily-mean temperatures for these stations and water temperatures measured at the time of water-discharge measurements are on file in the District office.

Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharge.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples are usually obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section. Although data collected periodically may represent conditions only at the time of sampling, data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of a stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Samples for indicator bacteria are analyzed locally. Samples for the National Stream Quality Accounting Network, the Hydrologic Bench-Mark Network (see definitions), and several long-term trend stations are analyzed in the Geological Survey laboratory in Arvada, Co. All sediment samples are analyzed by the Pennsylvania District Sediment Laboratory. Georgia Environmental Protection Division (EPD) network samples are analyzed by the Laboratory Services Section, Georgia Department of Natural Resources, Environmental Protection Division, and this is so stated in the "Remarks" section of the station description.

Data Presentation

Water-quality records collected at a surface-water daily-record station are published immediately following that record, regardless of the sampling frequency. Station number and name are the same for both records. If no daily surface-water record is available, continuing water-quality record is published with its own station number and name in the regular downstream-order sequence, while data for partial-record stations and miscellaneous sites appear in separate tables following tables of discharge at partial-record stations and miscellaneous sites. Here each partial-record station and miscellaneous site is published with its own station number and name in the regular downstream-order sequence and without descriptive statements.

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for constituents measured daily. Tables of chemical, physical, biological, and radiochemical data obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

If the location is identical to that of the discharge-gaging station, the LOCATION and the DRAINAGE AREA statements are not repeated in the descriptive headings. The following information, as appropriate, is provided with each continuing record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.–See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.–See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.–This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of constitutents measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the constituents individually.

EXTREMES.--Maximums and minimums are given only for constituents measured daily or more frequently. None are given for constituents measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.–If errors in water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

Remark Codes

The remark codes that may appear with the water-quality data in this report are as follows:

PRINTED OUTPUT	REMARK
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (Organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.

Records of Ground-Water Levels

Water-level data from national and State networks of observation wells are given in this report. These data are intended to provide a sampling and historical record of water-level changes in the State's most important aquifers. Locations of the observation wells in this report are shown in figure 9.

Although, in this report, records of water levels are presented for fewer than 30 wells, records are obtained through cooperative efforts of many Federal, State, and local agencies for about 1,400 wells throughout Georgia and are placed in computer storage. Each spring, the Georgia District and the Georgia Department of Natural Resources, Environmental Protection Division, Geologic Survey Branch, publish a report for the previous calendar year entitled "Ground-Water Data for Georgia, 198_". This report contains hydrographs of recorder wells, detailed maps showing water levels from the previous year, and other useful items. Information about the availability of the data in the water-level file may be obtained from the District Chief, Georgia District.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used ensure that measurements at each well are consistently accurate and reliable.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, based on the "U.S. Geological Survey Index to Topographic Maps of Georgia." Each 7.5-minute topographic quadrangle in the State has been given a number and letter designation beginning at the southwest corner of the State. Numbers increase eastward and letters progress alphabetically northward. The letters "I" and "O" are omitted. Quadrangles in the northern part of the State are designated by double letters. Wells inventoried in each quadrangle are numbered consecutively beginning with 1.

Water-level records are obtained from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (LSD). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The station description precedes the tabular data and is presented through use of descriptive headings. The comments to follow clarify information presented under the various headings.

LOCATION.–This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.–This entry designates by name (if a name exists) the aquifer(s) open to the well.

WELL CHARACTERISTICS.–This entry describes the well in terms of depth, diameter, casing depth and(or) screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

DATUM.–This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

REMARKS.–This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers. Periods of missing or estimated record are described in this section.

PERIOD OF RECORD.–This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.–This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet above or below land-surface datum. Missing records are indicated by dashes in place of the water level. The highest, lowest, and mean water levels of the water years are shown on lines below the table.

Records of Precipitation Quality

The precipitation-quality data presented in this report represent analyses of time-composite samples, most often for a collection period of one week. This is in contrast to most of the published surface-water quality data which represent samples taken of specific times.

On-Site Measurements and Sample Collection

Precipitation samples are collected with wet/dry collectors or bulk samplers. The wet/dry collector is the preferred precipitation sampler and consists of a bucket which is open only during periods of wet (rainfall, snow, etc.) precipitation. During dry periods the sample bucket is covered, thus excluding dry-fall precipitation from the sample. Bulk samplers are less desirable because they collect both wet- and dry-fall precipitation. However, they are useful as backups during times when the wet/dry samplers fail to properly function. Bulk samplers consist of a catchment area, such as a funnel, where the sample is collected and then fed through a delivery tube to the sample recepticle. The tubing is looped in order to minimize sample evaporation. If necessary, wet/dry samplers can also be used as makeshift bulk samplers by leaving them in the open position for the collection period.

Accurate measurements of precipitation quantity also are made at each station. One of two types of recording gages is normally used. National Trends Network (NTN) stations are equipped with weighing-bucket rain gages, which graphically record rainfall as well as count rainfall events. The other commonly-used recording gage consists of a rainfall catchment pipe and a float-driven digital recorder which periodically records the water-level in the pipe.

Time-composite wet- and bulk-precipitation samples are collected and brought back to the laboratory and weighed. Rainfall quantity is estimated from the sample weight. A temperature-density correction can be applied if desired but normally this correction results in a very small change in the estimated quantity of rainfall. An estimation of the sampler efficiency is made by computing the ratio of rainfall amount collected in the sample bucket to that measured by the recording rain gage. This collector efficiency ratio is an important indicator of possible collector malfunction. For example, a ratio substantially less than one indicates that the wet/dry collector was not opening properly and thus, excluding rainfall.

After weighing the sample, a small portion is removed for measurement of pH, specific conductance, and, in some instances, titratable acidity. The pH and specific conductance are both determined electrometrically according to methods described in the National Atmospheric Deposition Program "NADP Instruction Manual: Site Operation". The remainder of the sample is then used for laboratory chemical analyses. This portion of the sample is shipped to the laboratory raw and untreated. In the case of NTN operation, the original bucket is resealed and mailed to the Illinois State Water Survey Central Analytical Laboratory (CAL) for analysis. In all other instances, sample portions are preserved, treated, and analyzed according to specific project requirements.

Data presentation

Records of precipitation quality are published following the "Records of ground-water" section of this report. As with records of daily water discharge and surface-water quality, precipitation-quality records consist of two parts, a station header and a data table. The station header contains the descriptive information pertinent to the establishment, location, and operation of the site. Records are presented alphabetically by county and, within each county, by latitude, longitude, and sequence number. As with ground-water wells, the primary site identifier used for precipitation-quality stations in this report is the 15-digit composite of these three numbers. The following text presents a clarification of the subheadings which follow the station identification number and station name.

LOCATION.–See Data Presentation under "Records of Stage and Water Discharge"; same comments apply.

PERIOD OF RECORD.–This indicates the periods for which there are published precipitation-quality records for the station. Periods of record are presented separately for each type of sample collected at the site (in this report, either wet precipitation, bulk precipitation, or both).

INSTRUMENTATION.–In this section, an abbreviated-style listing of the data-recording and sample-collection equipment permanently housed at the site is presented.

REMARKS.–This section is reserved for comments pertaining to unusual or extraordinary circumstances or to qualifying information which must be used to accurately interpret the data presented for the site. More general comments which may pertain to several or all of the sites are presented in the "EXPLANATION OF RECORDS" section in the introductory part of the report.

ACCESS TO WATSTORE DATA

The National WATer Data STOrage and REtrieval System (WATSTORE) was established for the management and use of water data collected through the activities of the U.S. Geological Survey and to provide more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Va.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charge can be obtained locally from each of the Water Resources Division's district offices (see the address given on the back of title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, VA 22092

DEFINITION OF TERMS

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, high-energy phosphate-bond containing compound used by living cells as an energy source for biochemical reactions. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic unicellular, colonial, or multicellular plants which contain chlorophyll and other pigments.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Alkalinity is a measure of the proton-accepting capacity of a solution. This property is also referred to as its "acid-neutralizing capacity", and is equal to the sum concentration of all proton acceptors in the solution or the total strong base concentration. Total alkalinity is operationally defined as the alkalinity neutralized by titration with a strong acid to the carbonic acid equivalence point.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, and often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a group of bacteria used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. **Fecal coliform bacteria** are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria also found in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many plankton organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 2,447 cubic meters, approximately 1.9835 acre-feet, or about 646,000 gallons.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments in most plant tissue. Chlorophyll a and b are the two most common pigments in plants.

Collector efficiency is a measure of the quantity of wet precipitation (usually rain) collected by a precipitation collector relative to that which actually fell from the atmosphere. Operationally, this measure is taken as the ratio of rain volume in the precipitation collector to rain volume measured by a recording rain gage.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (ft^3/s, or CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic feet per second per square mile [(ft^3/s)/mi^2 or CFSM] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

> **Mean discharge** (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.
>
> **Instantaneous discharge** is the discharge at a particular instant of time.

Dissolved is that material in a water sample which passes through a 0.45 μm membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river from upstream specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent concentration of calcium carbonate ($CaCO_3$).

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land-surface datum (lsd) is a reference plane that is approximately at land surface at a well from which depth or height to water surface is measured.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This develomental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (ug/g, μg/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L, μg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of solution. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of solution. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of dry sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD of 1929 or NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in national or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research

National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the spatial and temporal variability of the composition of atmospheric deposition which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific variable. The codes used in WATSTORE are mostly the same as those used in the U.S. Environment Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited streamflow and(or) water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..........	0.00024 - 0.004	Sedimentation
Silt............	.004 - .062	Sedimentation
Sand.........	.062 - 2.0	Sedimentation or sieve
Gravel.......	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population in terms of types, numbers, mass, or volume.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 2.22 disintegrations per minute (dpm).

Plankton is the community of suspended, floating, or weakly swimming organism that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic-food web. The zooplankton community is dominated by small crustaceans and rotifers.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m^2·time)] for periphyton and macrophytes and mg C/(m^3·time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O_2/(m^2.time)] for periphyton and macrophytes and [mg O_2/(m^3·time)] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either hour or day, depending on the incubation period.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Recoverable from bottom material is the amount of a given constituent in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and close to it. In this report bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Suspended sediment is the sediment that, at any given time, is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total-sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry mass or volume, that passes a section during a given time. **Total-sediment load** or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in a solvent (such as water).

Specific conductance is a measure of the ability of a water solution to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same stream with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton.

Surface area of a lake is that area outlined on the latest U.S. Geological Survey topographic map as the boundary of the lake and measured by a planimeter. In localities not covered by topographic maps, the areas are computed the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 μm membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentration of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 μm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determination of (1) dissolved and (2) total concentration of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom........................Animalia
Phylum...........................Arthropoda
Class...............................Insecta
Order..............................Ephemeroptera
Family.............................Ephemeridae
Genus.............................*Hexagenia*
Species...........................*Hexagenia limbata*

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY) is the quantity of substance in solution or suspension that passes a stream section during a 24-hour period.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" indicates that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," and so on.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1980, is called the "1980 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found, thoroughly mixed, in a reservoir containing all the water passing a given location during the water year.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publiction as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 41, Box 25425, Denver, CO 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. Water temperature-influential factors, field measurement, and data presentation, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS–TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. Guidelines for collection and field analysis of ground-water samples for selected unstable constituents, by W.W. Wood: USGS–TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. Application of surface geophysics to ground-water investigations, by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI Book 2, Chapter D1. 1974. 116 pages.

2-D2 Application of seismic-refraction techniques to hydrologic studies, by F.P. Haeni: USGS-TWRI Book 2, Chapter D2. 1988. 86 pages.

2-E1. Application of borehole geophysics to water-resources investigations, by W.S. Keys and L.M. MacCary: USGS-TWRI Book 2, Chapter E1. 1971. 126 pages.

2-F1. Application of drilling, coring, and sampling techniques to test holes and wells, by Eugene Shuter and W.E. Teasdale: USGS-TWRI Book 2, Chapter F1. 1989. 97 pages.

3-A1. General field and office procedures for indirect discharge measurements, by M.A. Benson and Tate Dalrymple: USGS–TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M.A. Benson: USGS–TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. Measurement of peak discharge at culverts by indirect methods, by G.L. Bodhaine: USGS–TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. Measurement of peak discharge at width contractions by indirect methods, by H.F. Matthai: USGS–TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS–TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. General procedure for gaging streams, by R.W. Carter and Jacob Dividian: USGS–TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. Stage measurements at gaging stations, by T.J. Buchanan and W.P. Somers: USGS–TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. Discharge measurements at gaging stations, by T.J. Buchanan and W.P. Somers: USGS–TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. Measurement of time of travel and dispersion in streams by dye tracing, by E.F. Hubbard, F.A. Kilpatrick, L.A. Martens, and J.F. Wilson, Jr.: USGS–TWRI Book 3, Chapter A9. 1982. 44 pages.

3-A10. Discharge ratings at gaging stations, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. Measurement of discharge by moving-boat method, by G.F. Smoot and C.E. Novak: USGS–TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A12. Fluorometric procedures for dye tracing, by J.F. Wilson, Jr.: USGS–TWRI Book 3, Chapter A12. 1968. 31 pages.

3-A13. Computation of continuous records of streamflow, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. Use of flumes in measuring discharge, by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. Computation of water-surface profiles in open channels, by Jacob Davidian: USGS–TWRI Book 3, Chapter A15. 1984. 48 pages.

3-A16. Measurement of discharge using tracers, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI Book 3, Chapter A16. 1985. 52 pages.

3-A17. Acoustic velocity meter systems, by Antonius Laenen: USGS–TWRI Book 3, Chapter A17. 1985. 38 pages.

3-A18 Determination of stream reaeration coefficients by use of tracers, by F.A. Kilpatrick, R.E. Rathbun, N. Yotsukura, G.W. Parker, amd L.L. DeLong: USGS-TWRI Book 3, Chapter A18. 1989. 52 pages.

3-B1. Aquifer-test design, observation, and data analysis, by R.W. Stallman: USGS–TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. Introduction to ground-water hydraulics, a programmed text for self-instruction, by G.D. Bennett: USGS–TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. Type curves for selected problems of flow to wells in confined aquifers, by J.E. Reed: USGS–TWRI Book 3, Chapter B3. 1980. 106 pages.

3-B5. Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems–An introduction, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI Book 3, Chapter B5. 1987. 15 pages.

3-B6. The principle of superposition and its application in ground-water hydraulics, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI Book 3, Chapter B6. 1987. 28 pages.

3-C1. Fluvial sediment concepts, by H.P. Guy: USGS–TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. Field methods for measurement of fluvial sediment, by H.P. Guy and V.W. Norman: USGS–TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS–TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. Some statistical tools in hydrology, by H.C. Riggs: USGS–TWRI Book 4, Chapter A1. 1972. 18 pages.

4-A2. Frequency curves, by H.C. Riggs: USGS–TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. Low-flow investigations, by H.C. Riggs: USGS–TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. Storage analyses for water supply, by H.C. Riggs and C.H. Hardison: USGS–TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. Regional analyses of streamflow characteristics, by H.C. Riggs: USGS–TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. Computation of rate and volume of stream depletion by wells, by C.T. Jenkins: USGS–TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. Methods for determination of inorganic substances in water and fluvial sediments, by M.W. Skougstad and others, editors: USGS–TWRI Book 5, Chapter A1. 1979. 626 pages.

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5-A3. Methods for analysis of organic substances in water, by D.F. Goerlitz and Eugene Brown: USGS–TWRI Book 5, Chapter A3. 1972. 40 pages.

5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, edited by P.E. Greeson, T.A. Ehlke, G.A. Irwin, B.W. Lium, and K.V. Slack: USGS–TWRI Book 5, Chapter A4. 1977. 332 pages.

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5-A6. Quality assurance practices for the chemical and biological analyses of water and fluvial sediments, by L.C. Friedman and D.E. Erdmann: USGS–TWRI Book 5, Chapter A6. 1982. 181 pages.

5-C1. Laboratory theory and methods for sediment analysis, by H.P. Guy: USGS–TWRI Book 5, Chapter C1. 1969. 58 pages.

6-A1. A modular three-dimensional finite-difference ground-water flow model, by M.G. McDonald and A.W. Harbaugh: USGS–TWRI Book 6, Chapter A1. 1988. 586 pages.

7-C1. Finite difference model for aquifer simulation in two dimensions with results of numerical experiments, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. Computer model of two-dimensional solute transport and dispersion in ground water, by L.F. Konikow and J.D. Bredehoeft: USGS-TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. A model for simulation of flow in singular and interconnected channels, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI Book 7, Chapter C3. 1981. 110 pages.

8-A1. Methods of measuring water levels in deep wells, by M.S. Garber and F.C. Koopman: USGS TWRI Book 8, Chapter A1. 1968. 23 pages.

8-A2. Installation and service manual for U.S. Geological Survey manometers, by J.D. Craig: USGS–TWRI Book 8, Chapter A2. 1983. 57 pages.

8-B2. Calibration and maintenance of vertical-axis type current meters, by G.F. Smoot and C.E. Novak: USGS–TWRI Book 8, Chapter B2. 1968. 15 pages.

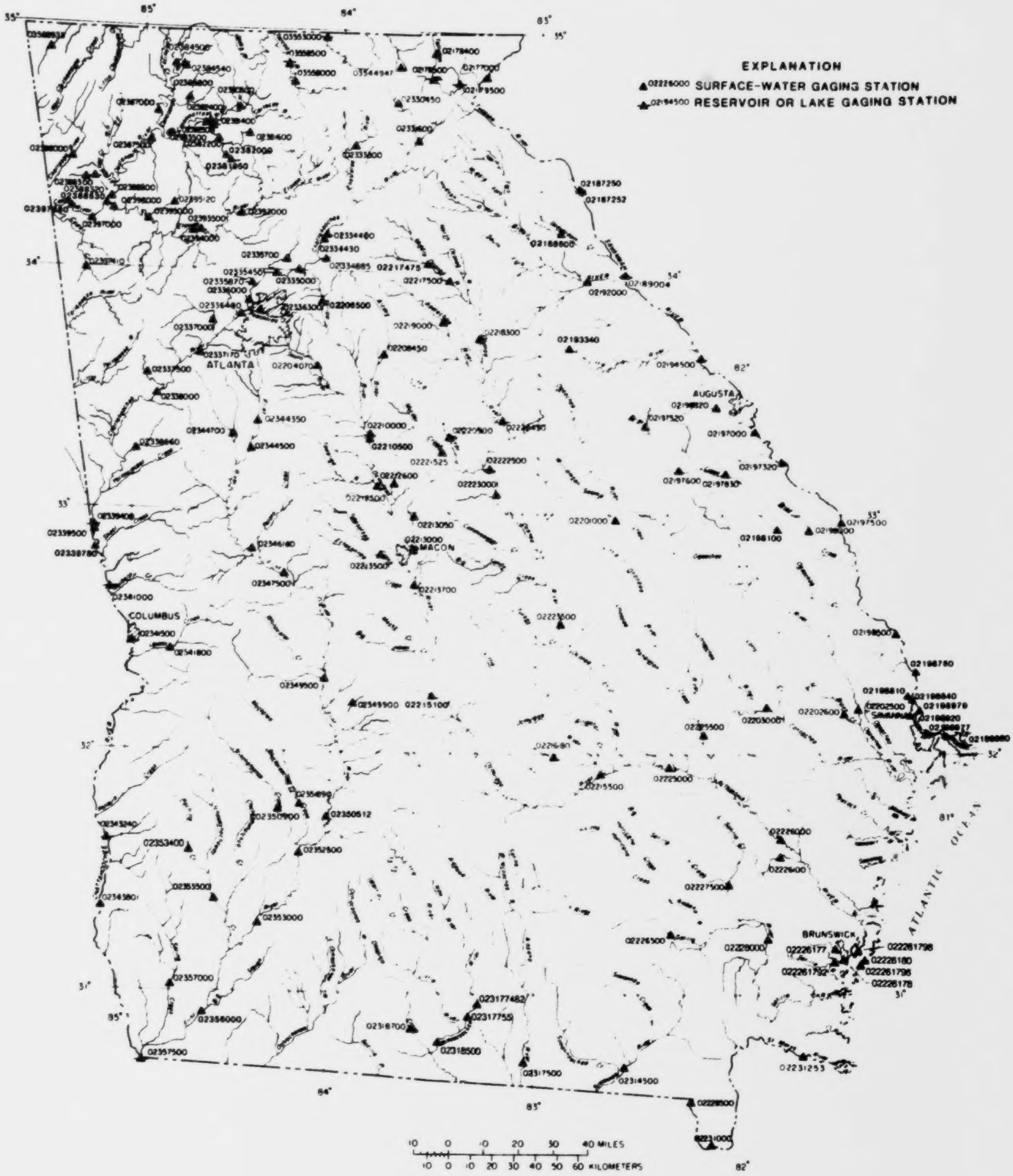
EXPLANATION
02226000 SURFACE-WATER GAGING STATION
02194500 RESERVOIR OR LAKE GAGING STATION
35°
85°
84°
83°
82°
81°
34°
33°
32°
31°
ATLANTA
AUGUSTA
MACON
COLUMBUS
SAVANNAH
BRUNSWICK
ATLANTIC OCEAN
03563000
03558000
03544947
02178400
02177000
02179500
02330450
02333600
02335000
02334480
02334430
02334885
02217475
02217500
02335700
02335450
02335870
02336000
02336480
02336300
02206500
02337000
02337170
02337500
02338000
02338660
02204070
02208450
02219000
02218300
02344350
02344700
02344500
02339400
02339500
02338780
02341000
02341500
02341800
02346180
02347500
02349500
02349900
02215100
02210000
02210500
02221525
02222500
02223000
02212600
02213050
02213000
02213500
02213700
02187250
02187252
02188600
02189004
02192000
02193340
02194500
02197520
02197000
02197320
02197600
02197830
02201000
02198100
02197500
02198500
02198760
02198810
02198840
02202500
02202600
02203000
02216180
02215500
02225000
02226000
02226100
02227500
02226500
02228000
02226177
022261792
022261798
02226180
022261796
02226178
02231253
02314500
02317500
02318500
02318700
023177482
02317755
02357500
02358000
02357000
02343801
02353500
02353400
02353000
02352500
02350900
02350512
02343240
02387000
02384540
02381400
02382000
02381850
02395120
02393000
02394000
02397000
02385800
02392000
MILES
KILOMETERS
10
0
10
20
30
40
50
60

Figure 5 — Location of gaging stations.

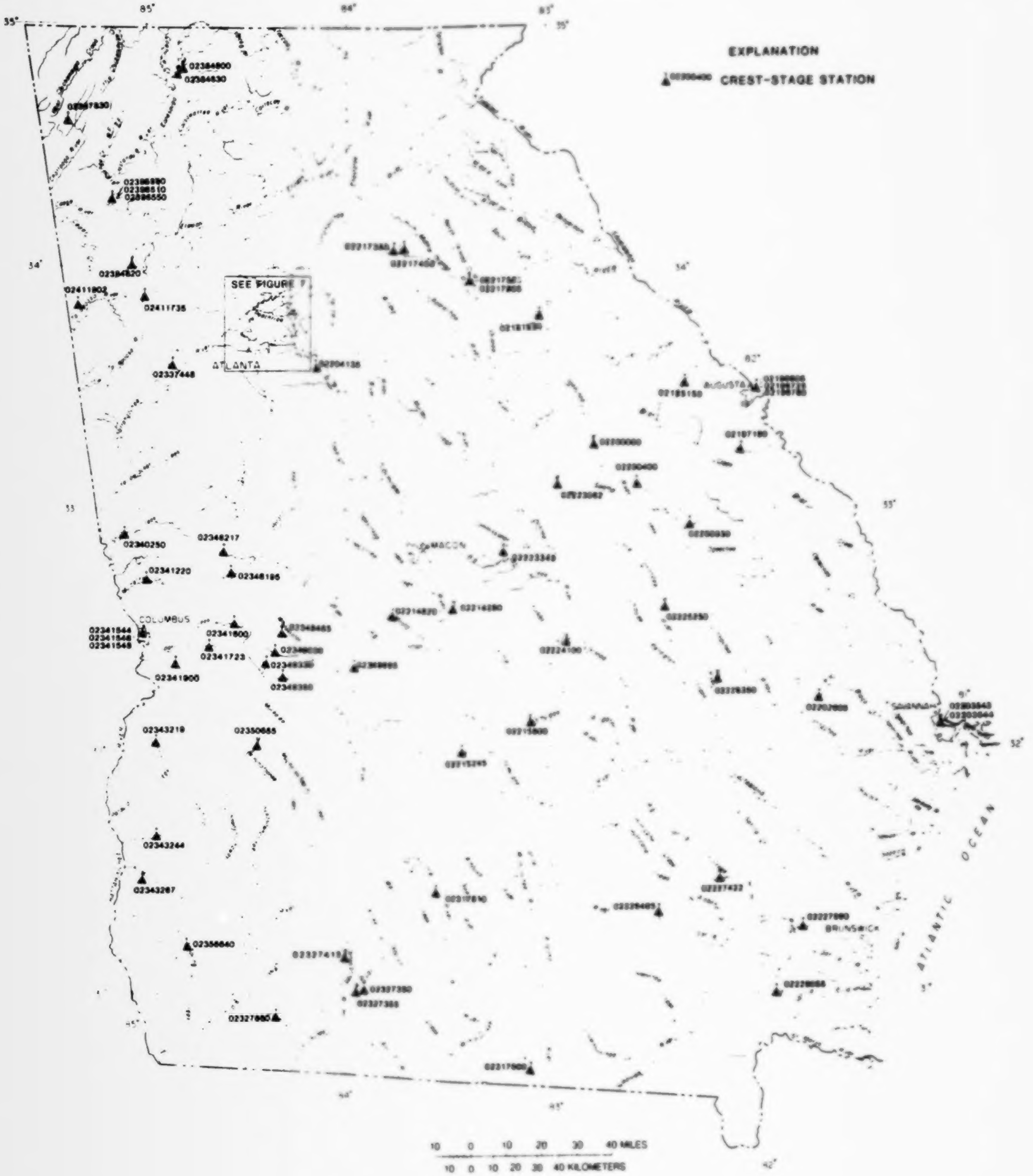
EXPLANATION
▲ CREST-STAGE STATION
35°
85°
84°
83°
34°
33°
82°
32°
SEE FIGURE 7
ATLANTA
AUGUSTA
MACON
COLUMBUS
SAVANNAH
BRUNSWICK
ATLANTIC OCEAN
02384600
02384630
02387830
02411802
02411735
02337448
02204135
02217380
02217450
02185150
02187190
02223340
02214820
02216280
02225250
02224100
02348217
02340250
02341220
02348195
02341544
02341546
02341548
02341600
02341723
02341900
02348385
02349380
02343219
02350685
02343244
02343267
02356640
02327413
02327380
02327385
02327860
02317600
02317610
02215245
02227432
02227980
02228055
10 0 10 20 30 40 MILES
10 0 10 20 30 40 KILOMETERS

Figure 6.--Location of crest stage partial-record stations.

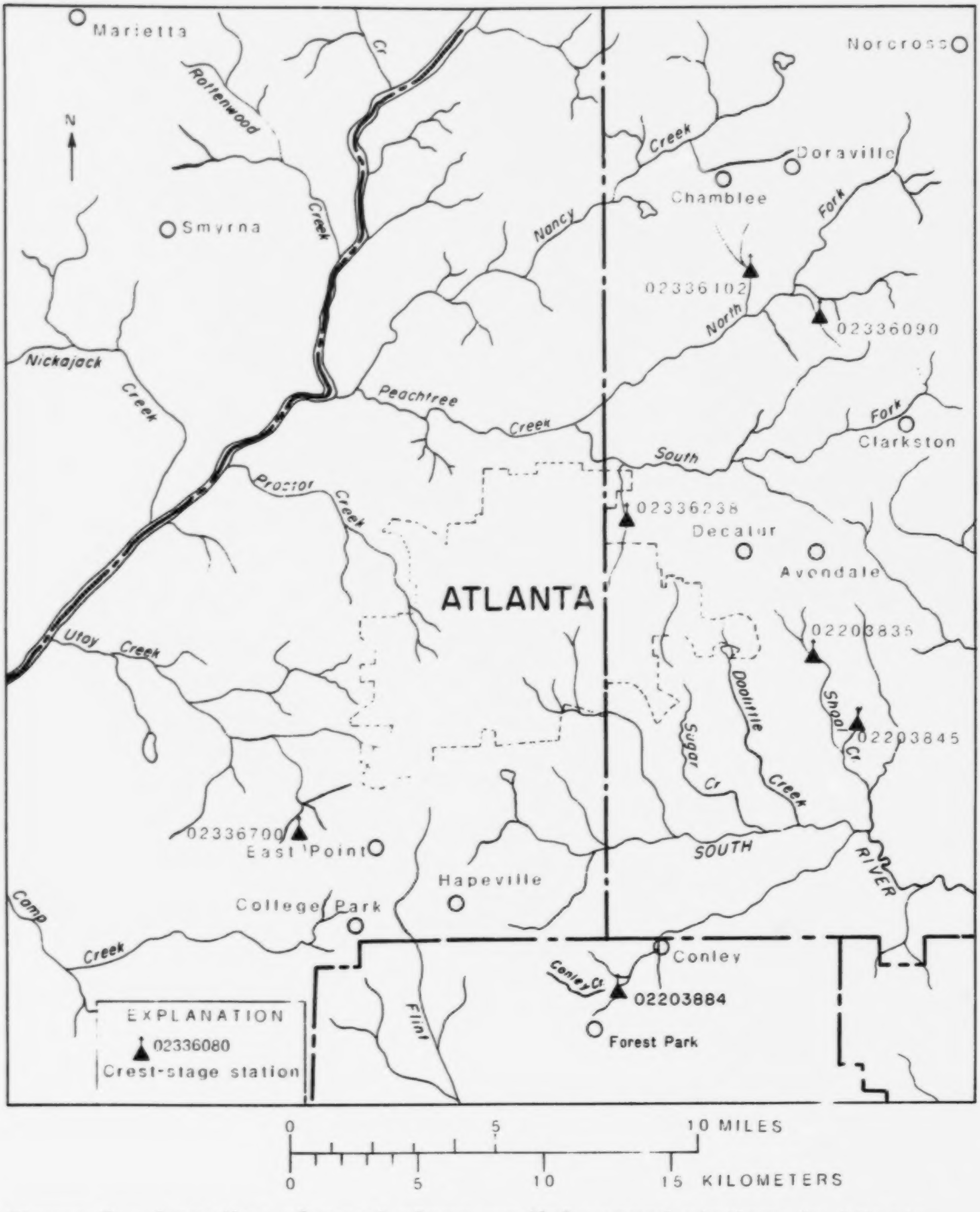
Marietta
Norcross
Rottenwood
Cr
N
Creek
Doraville
Chamblee
Smyrna
Creek
Nancy
Fork
02336102
North
02336090
Nickajack
Creek
Peachtree
Creek
Fork
Clarkston
South
Proctor
Creek
02336238
Decatur
Avondale
ATLANTA
02203835
Utoy
Creek
Doolittle
Shoal
Cr
02203845
Sugar
Cr
Creek
02336700
East Point
SOUTH
RIVER
Hapeville
Camp
College Park
Creek
Conley
Conley Cr
02203884
Flint
Forest Park
EXPLANATION
02336080
Crest-stage station
0
5
10 MILES
0
5
10
15 KILOMETERS

Figure 7.--Location of crest stage partial-record stations in Atlanta metropolitan area.

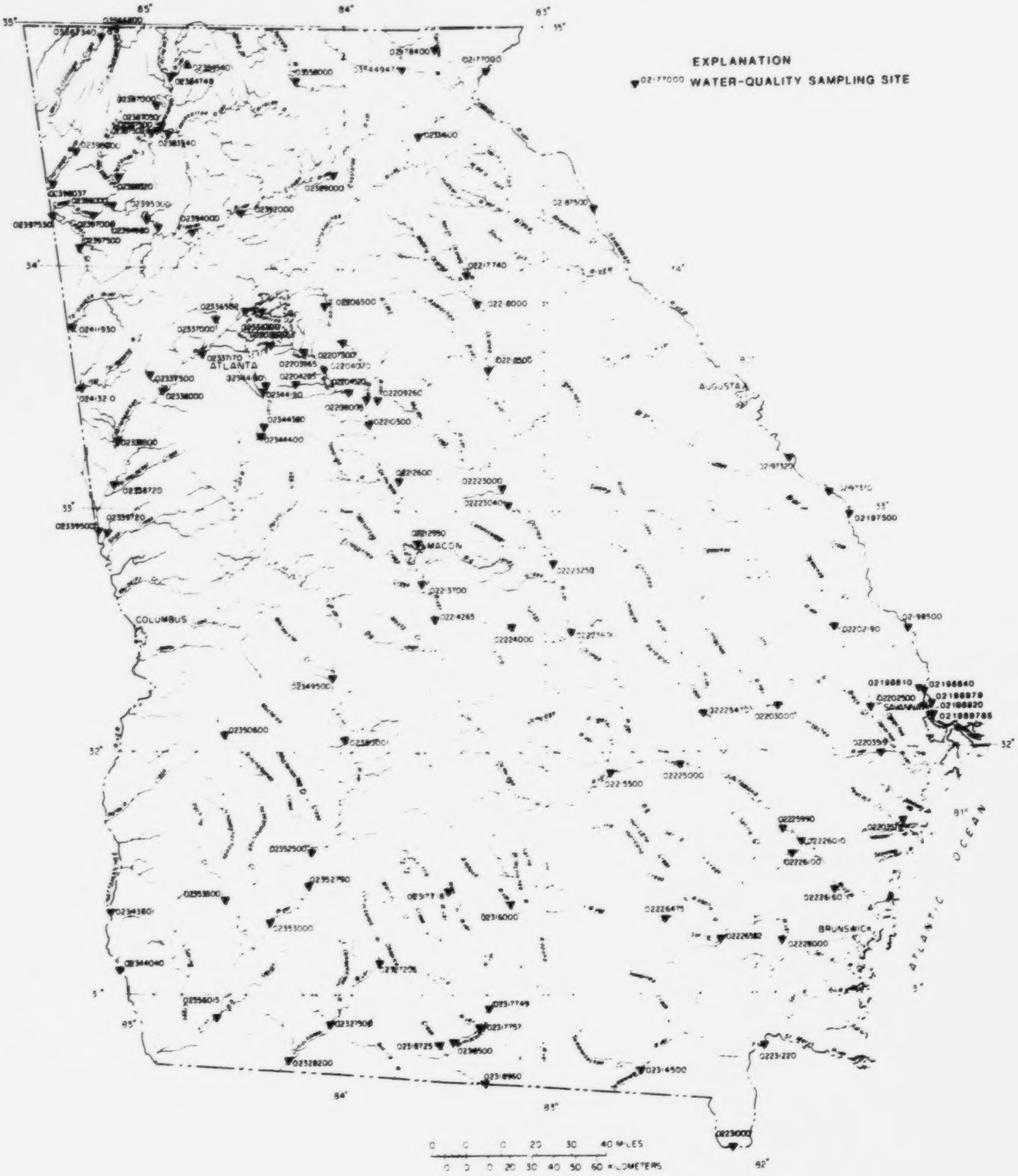
EXPLANATION
▼02177000 WATER-QUALITY SAMPLING SITE
35°
85°
84°
83°
82°
81°
34°
33°
32°
31°
ATLANTA
AUGUSTA
MACON
COLUMBUS
SAVANNAH
BRUNSWICK
ATLANTIC OCEAN
02177000
02178400
02331600
02187500
02192000
02198500
02203000
02225000
02228000
02327500
02328200
02349500
02350600
02353000
02314500
02231000
0 5 10 20 30 40 MILES
10 0 10 20 30 40 50 60 KILOMETERS

Figure 8.—Location of surface-water-quality stations.

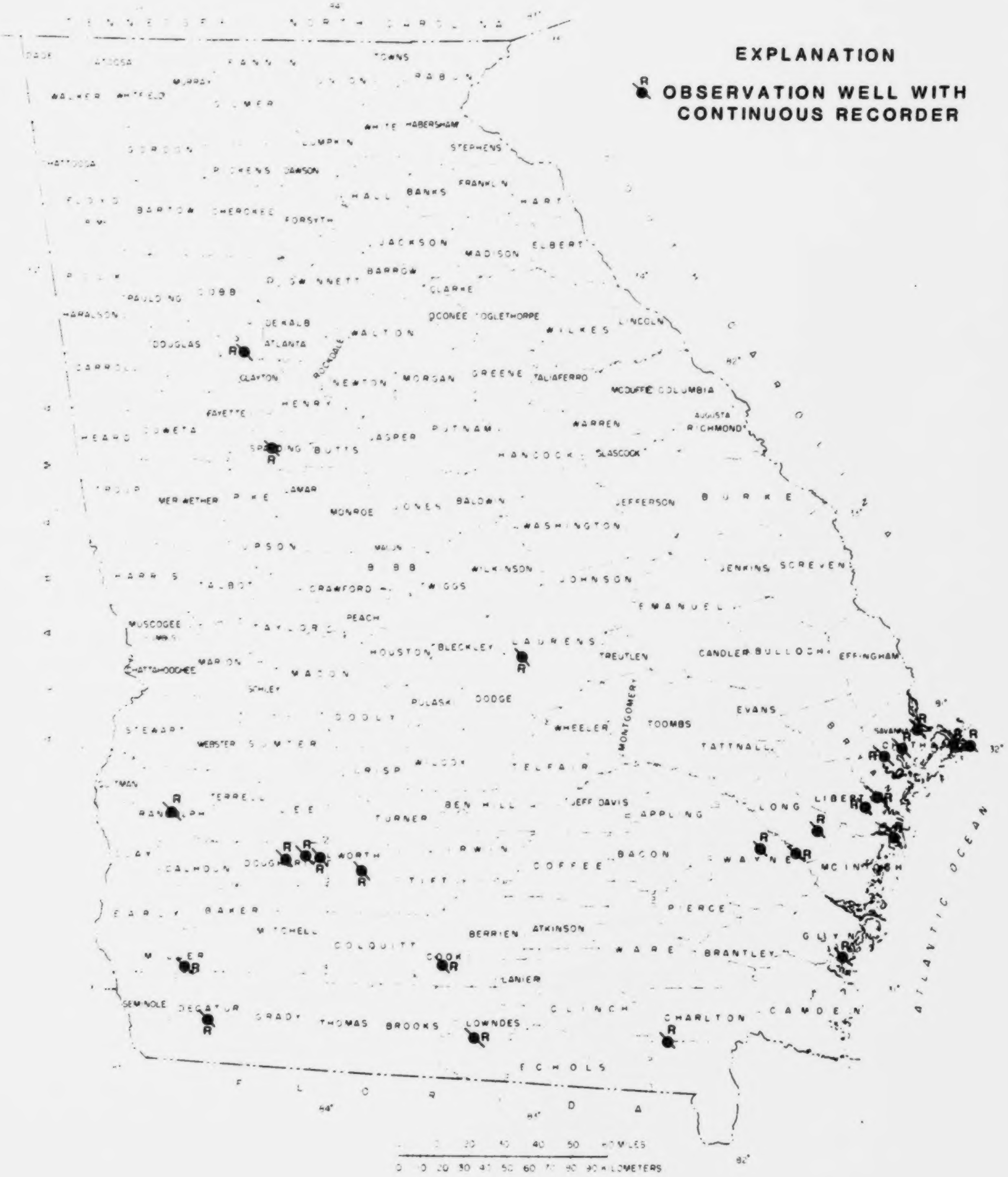
EXPLANATION
R OBSERVATION WELL WITH CONTINUOUS RECORDER
TENNESSEE
NORTH CAROLINA
FLORIDA
ATLANTIC OCEAN
DADE
CATOOSA
FANNIN
TOWNS
RABUN
MURRAY
UNION
WALKER
WHITFIELD
GILMER
WHITE
HABERSHAM
GORDON
LUMPKIN
STEPHENS
CHATTOOGA
PICKENS
DAWSON
FRANKLIN
HALL
BANKS
HART
FLOYD
BARTOW
CHEROKEE
FORSYTH
JACKSON
MADISON
ELBERT
BARROW
GWINNETT
CLARKE
PAULDING
COBB
HARALSON
DEKALB
OCONEE
OGLETHORPE
WILKES
LINCOLN
DOUGLAS
ATLANTA
WALTON
ROCKDALE
CARROLL
CLAYTON
NEWTON
MORGAN
GREENE
TALIAFERRO
MCDUFFIE
COLUMBIA
FAYETTE
HENRY
AUGUSTA
RICHMOND
HEARD
COWETA
PUTNAM
WARREN
SPALDING
BUTTS
JASPER
HANCOCK
GLASCOCK
TROUP
MERIWETHER
PIKE
LAMAR
MONROE
JONES
BALDWIN
JEFFERSON
BURKE
WASHINGTON
UPSON
MACON
HARRIS
TALBOT
BIBB
WILKINSON
JOHNSON
JENKINS
SCREVEN
CRAWFORD
TWIGGS
EMANUEL
MUSCOGEE
TAYLOR
PEACH
HOUSTON
BLECKLEY
LAURENS
TREUTLEN
CANDLER
BULLOCH
EFFINGHAM
CHATTAHOOCHEE
MARION
SCHLEY
MACON
PULASKI
DODGE
MONTGOMERY
TOOMBS
EVANS
STEWART
DOOLY
WHEELER
WEBSTER
SUMTER
TATTNALL
SAVANNAH
CHATHAM
CRISP
WILCOX
TELFAIR
BRYAN
QUITMAN
TERRELL
LEE
RANDOLPH
TURNER
BEN HILL
JEFF DAVIS
APPLING
LONG
LIBERTY
CLAY
CALHOUN
DOUGHERTY
WORTH
IRWIN
COFFEE
BACON
WAYNE
MCINTOSH
TIFT
EARLY
BAKER
PIERCE
MITCHELL
BERRIEN
ATKINSON
COLQUITT
WARE
BRANTLEY
GLYNN
MILLER
COOK
LANIER
SEMINOLE
DECATUR
GRADY
THOMAS
BROOKS
LOWNDES
CLINCH
CHARLTON
CAMDEN
ECHOLS
84°
83°
82°
32°
0 10 20 30 40 50 60 MILES
0 10 20 30 40 50 60 70 80 90 KILOMETERS

Figure 9.--Location of selected observation wells.

HYDROLOGIC-DATA STATION RECORDS

SURFACE-WATER RECORDS

Remark Codes

The following remark codes may appear with the water-quality data in this section:

PRINTED OUTPUT	REMARK
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (Organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.

SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.

LOCATION.–Lat 34°48'50", long 83°18'22", Oconee County, S.C.-Rabun County, Ga., Hydrologic Unit 03060102, on left bank 150 ft downstream from bridge on U.S. Highway 76, 2.8 mi upstream from Stekoa Creek, 7 mi southeast of Clayton, 9 mi downstream from War Woman Creek, and 9 mi upstream from confluence with Tallulah River.

DRAINAGE AREA.–207 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–May 1907 to June 1908, October 1939 to current year. Monthly discharge only for May 1907 to June 1908, published in WSP 1303.

REVISED RECORDS.–WSP 1383: 1940-41, drainage area.

GAGE.–Water-stage recorder. Datum of gage is 1,165.6 ft above National Geodetic Vertical Datum of 1929. May 1907 to June 1908, nonrecording gage at site 400 ft upstream at different datum.

REMARKS.–Estimated daily discharges: July 21-26. Records good.

AVERAGE DISCHARGE.–50 years (water years 1940-89), 646 ft^3/s, 42.38 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 29,000 ft^3/s, Aug. 30, 1940, gage height, 13.8 ft, from rating curve extended above 4,700 ft^3/s on basis of slope-area measurements at gage heights 9.9 and 13.2 ft; minimum discharge, 88 ft^3/s, Oct. 8, 12, 13, 1954.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 3,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 16	2000	3,500	4.03	July 4	1200	*5,200	5.00
July 3	1900	5,110	4.95				

Minimum discharge, 123 ft^3/s, Oct. 1, gage height, 0.90 ft.

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	151	358	824	301	1150	523	582	342	906	968	554
2	603	145	323	624	296	836	499	661	337	851	942	535
3	788	135	300	480	290	763	512	486	335	2620	865	511
4	744	134	285	408	284	709	544	442	330	4240	818	487
5	394	530	266	360	320	1570	700	755	360	2510	787	474
6	292	407	254	390	444	1620	622	1560	388	2380	749	500
7	246	269	245	402	399	1360	710	863	383	2050	717	505
8	219	225	237	373	368	1050	791	694	383	1720	682	482
9	202	209	232	412	330	904	898	708	1050	1570	669	460
10	193	200	223	548	313	811	748	877	662	1450	653	442
11	183	206	217	628	302	746	669	709	475	1390	647	475
12	173	192	210	1040	296	700	619	628	421	1370	722	623
13	161	179	204	911	287	658	583	584	626	1290	797	796
14	155	176	203	750	281	620	564	562	474	1230	680	674
15	155	171	200	770	277	594	603	683	1440	1200	754	559
16	153	172	197	692	273	638	582	566	2260	1190	739	583
17	152	236	192	589	320	569	536	523	1850	1140	760	515
18	150	231	184	534	446	550	513	494	1100	980	666	476
19	170	196	171	493	418	539	509	477	1060	971	690	454
20	158	459	197	460	414	548	505	499	1960	1100	629	441
21	160	725	185	428	900	782	466	491	2330	1700	593	463
22	179	419	186	405	878	765	443	451	2160	1330	574	562
23	152	352	216	390	613	864	435	531	2010	1550	557	517
24	146	344	280	376	514	1210	421	457	1790	1500	557	450
25	140	295	403	359	463	880	412	422	1420	1230	576	852
26	139	271	291	347	440	746	401	407	1250	1250	577	1910
27	137	566	249	345	516	674	389	400	1090	1210	618	982
28	159	672	244	331	1720	631	381	382	1040	1120	685	751
29	157	487	282	319	—	591	422	369	1010	1020	818	1390
30	135	405	274	317	—	585	420	364	1020	990	667	2160
31	138	—	683	310	—	566	—	354	—	1060	623	—
TOTAL	7057	9159	7991	15615	12703	25229	16420	17981	31356	46118	21779	20583
MEAN	228	305	258	504	454	814	547	580	1045	1488	703	686
MAX	788	725	683	1040	1720	1620	898	1560	2330	4240	968	2160
MIN	124	134	171	310	273	539	381	354	330	851	557	441
CFSM	1.10	1.47	1.25	2.44	2.19	3.93	2.64	2.80	5.05	7.19	3.40	3.31
IN.	1.27	1.65	1.44	2.81	2.28	4.53	2.95	3.23	5.63	8.29	3.91	3.70

CAL YR 1988 TOTAL 126670 MEAN 346 MAX 3110 MIN 124 CFSM 1.67 IN 22.76
WTR YR 1989 TOTAL 231991 MEAN 636 MAX 4240 MIN 124 CFSM 3.07 IN 41.69

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
11...	1445	182	15	16	7.10	6.90	14.0	22.5	10.0	102
NOV										
09...	1545	208	17	17	7.00	7.10	10.5	18.5	11.0	102
DEC										
13...	1250	203	15	15	6.40	6.70	2.0	15.0	13.6	103
JAN										
11...	1130	544	15	16	7.40	6.50	7.0	7.5	10.4	88
FEB										
14...	1120	282	15	--	6.90	6.80	7.0	17.0	11.8	100
MAR										
14...	1130	617	14	13	7.50	6.60	11.0	16.0	10.1	95
APR										
11...	1020	669	14	15	6.50	6.70	9.0	13.0	11.6	103
MAY										
09...	1030	678	14	19	6.80	6.70	12.5	18.0	9.7	95
JUN										
12...	1000	413	15	15	6.80	6.90	20.5	28.0	8.6	99
JUL										
18...	0940	991	13	13	6.60	6.50	18.0	29.0	8.9	--
AUG										
08...	1010	684	14	--	6.23	6.50	19.5	22.0	8.5	97
SEP										
20...	1230	441	14	13	7.14	6.70	18.0	28.0	8.9	98

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.–Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 11...	1.0	–	0.1	35	5	<1
NOV 09...	1.0	–	1.1	20	7	<1
DEC 13...	<1.0	–	1.2	<20	4	<1
JAN 11...	2.0	–	1.0	230	4	4
FEB 14...	1.0	–	0.6	<20	5	<1
MAR 14...	1.0	–	0.7	50	7	<1
APR 11...	2.0	–	0.4	70	5	1
MAY 09...	4.0	–	1.3	80	6	<1
JUN 12...	4.0	–	0.9	70	6	<1
JUL 18...	7.0	–	1.1	230	4	8
AUG 08...	2.0	–	0.6	–	3	4
SEP 20...	2.0	5	0.8	<20	4	<1

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 11...	<0.020	<0.030	–	–	–	0.050	1.1
NOV 09...	<0.030	<0.030	–	–	–	0.110	1.8
DEC 13...	0.020	0.040	–	–	–	0.020	<1.0
JAN 11...	–	0.050	–	–	–	0.030	3.4
FEB 14...	0.040	<0.030	–	–	–	0.180	1.8
MAR 14...	0.050	0.410	–	–	–	0.040	1.3
APR 11...	0.030	<0.030	–	–	–	<0.020	2.5
MAY 09...	0.160	0.120	–	–	–	0.070	1.9
JUN 12...	0.060	0.040	–	–	–	0.070	3.2
JUL 18...	<0.020	0.030	–	–	–	0.060	1.8
AUG 08...	0.020	<0.030	–	–	–	0.120	1.2
SEP 20...	0.020	<0.030	–	0.70	0.72	0.310	–

02178400 TALLULAH RIVER NEAR CLAYTON, GA.
(Hydrologic Bench-Mark Station)

LOCATION.–Lat 34°53'25", long 83°31'50", Rabun County, Hydrologic Unit 03060102, on right bank 100 ft downstream from county highway bridge, 120 ft downstream from Persimmon Creek, 8 mi upstream from Burton Dam, and 10.3 mi west of Clayton.

DRAINAGE AREA.–56.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–July 1964 to current year.

GAGE.–Water-stage recorder. Datum of gage is 1,868.93 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.–No estimated daily discharges. Records good.

AVERAGE DISCHARGE.–25 years, 186 ft^3/s, 44.71 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 8,500 ft^3/s, May 28, 1973, gage height, 12.00 ft; minimum discharge, 27 ft^3/s, Oct. 8, 1986.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 20	1230	*3,500	*7.68	No other peak greater than base discharge.			

Minimum discharge, 53 ft^3/s, Oct. 1, 30, 31, and Nov. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	59	119	363	110	471	195	225	121	228	196	104
2	226	54	108	239	108	356	187	198	118	215	195	106
3	181	53	102	198	106	320	200	172	117	489	176	99
4	164	55	97	164	105	317	241	169	135	569	169	95
5	117	153	92	146	175	552	296	356	146	389	163	95
6	98	119	89	173	223	614	258	384	138	861	159	102
7	89	91	87	152	240	477	316	273	123	622	153	98
8	81	85	84	165	200	385	343	234	147	450	149	95
9	77	79	83	180	170	335	353	309	316	378	146	91
10	73	81	79	227	153	300	306	361	220	360	143	90
11	70	88	77	311	142	273	276	285	169	365	140	91
12	66	78	75	392	134	255	257	252	150	339	140	95
13	63	82	75	384	128	238	240	227	188	299	135	110
14	62	76	73	316	123	226	228	218	205	272	138	125
15	61	73	72	314	119	219	260	209	502	250	175	119
16	59	78	71	265	124	224	230	191	576	240	239	163
17	58	109	69	230	158	203	217	181	459	229	178	110
18	58	85	67	204	190	203	208	174	318	218	146	98
19	68	83	67	186	168	193	200	170	376	225	137	92
20	57	254	67	172	214	214	192	182	1750	279	131	88
21	72	190	69	158	465	305	186	176	1140	315	126	99
22	64	143	70	149	357	266	180	171	750	273	122	135
23	59	125	91	142	269	355	175	190	545	393	121	111
24	58	111	116	135	223	366	170	166	433	331	119	98
25	56	99	119	128	199	299	165	157	366	276	121	235
26	56	94	95	127	186	263	161	150	317	249	122	274
27	54	206	87	136	294	240	157	147	281	230	115	164
28	54	179	94	120	809	225	156	139	265	214	112	138
29	54	144	88	116	—	214	175	135	284	204	114	490
30	54	130	139	119	—	233	156	131	253	203	109	787
31	56	—	294	113	—	210	—	127	—	198	104	—
TOTAL	2419	3256	2915	6224	5892	9351	6684	6459	10908	10163	4493	4597
MEAN	78.0	109	94.0	201	210	302	223	208	364	328	145	153
MAX	226	254	294	392	809	614	353	384	1750	861	239	787
MIN	54	53	67	113	105	193	156	127	117	198	104	88
CFSM	1.38	1.93	1.66	3.56	3.72	5.35	3.95	3.68	6.44	5.81	2.57	2.71
IN.	1.59	2.14	1.92	4.10	3.88	6.16	4.40	4.25	7.18	6.69	2.96	3.03

CAL YR 1988	TOTAL	38573	MEAN	105	MAX	1200	MIN	45	CFSM	1.86	IN	25.40
WTR YR 1989	TOTAL	73361	MEAN	201	MAX	1750	MIN	53	CFSM	3.56	IN	48.30

02178400 TALLULAH RIVER NEAR CLAYTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to September 1968, December 1969 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: September 1964 to September 1979.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 28.0°C July 28, 1966; minimum, 0.0°C on several days during most years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
APR									
27...	1100	160	16	17	6.90	8.10	15.0	9.4	99
JUL									
27...	1130	235	15	17	6.86	7.70	17.0	9.0	99

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
APR										
27...	--	1.0	5	1.2	0.45	1.2	32	0.2	0.50	7.0
JUL										
27...	--	1.4	5	1.2	0.40	1.1	31	0.2	0.50	7.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
APR												
27...	<1.0	0.60	0.10	8.4	15	--	--	--	<0.100	<0.100	0.010	0.010
JUL												
27...	<1.0	0.50	<0.10	7.9	13	--	--	--	0.100	<0.100	<0.010	0.050

02178400 TALLULAH RIVER NEAR CLAYTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN DISSOLVED (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)
APR												
27...	--	--	<0.20	<0.20	--	--	<0.010	<0.010	1.7	20	<1	<1
JUL												
27...	--	--	<0.20	<0.20	--	--	<0.010	<0.010	0.8	20	<1	<1

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)
APR											
27...	<1	<1	1	27	--	<5	5	<0.10	<0.1	<1	<3
JUL											
27...	<1	1	<1	32	2	<1	5	<0.10	<0.1	<1	<3

02187252 SAVANNAH RIVER BELOW HARTWELL LAKE NEAR HARTWELL, GA.

LOCATION.–Lat 34°21'15", long 82°48'55", Anderson County, S.C., Hydrologic Unit 03060103, on left bank at Highway 29, 6.8 mi east of Hartwell, and at mile 304.5.

DRAINAGE AREA.–2,090 mi^2, approximately.

PERIOD OF RECORD.--October 1984 to current year.

GAGE.–Water-stage recorder. Elevation of gage is 480 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.–No estimated daily discharges. Records fair, except those less than 1,000 ft^3/s, which are poor. Flow regulated by Lake Burton, Mathis Reservoir, and Hartwell Lake. (See "Lakes and Reservoirs in Savannah River Basin, stations 02188500, 02179500, and 02187250).

AVERAGE DISCHARGE.–5 years, 2,993 ft^3/s, 19.45 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 38,300 ft^3/s, Jan. 21, 1985, gage height, 12.63; minimum daily discharge, 63 ft^3/s, Nov. 18, 1984, Mar. 16, 23, Dec. 14, 1986, Jan. 4, 1987.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, 35,800 ft^3/s, Feb. 10; gage height, 12.31; minimum daily discahrge, 69 ft^3/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	3120	3040	91	3160	2770	163	2960	3930	222	235	5350
2	70	3140	2610	2710	3170	2740	163	2950	3780	223	1790	194
3	1510	3170	90	3110	3260	2760	3110	2920	212	1970	2060	190
4	1500	2170	80	3100	180	128	3150	2990	201	1910	3080	1840
5	1520	91	3870	2200	169	128	3100	2930	3210	3590	222	1830
6	1520	79	2820	2260	3090	2950	3110	182	476	3570	226	1820
7	2970	2790	2840	91	3100	2730	3120	181	3200	2850	6030	4240
8	128	3050	2810	86	3060	2740	190	3150	3160	200	4340	4330
9	128	2450	2830	3030	3560	2770	190	3120	2060	199	6040	200
10	3110	2450	95	3060	6530	2590	3110	3130	196	3060	3290	200
11	3120	2440	84	3080	161	190	3090	3170	196	3220	3280	4140
12	2900	81	3880	3060	164	190	3120	3170	2650	3030	227	4180
13	3190	79	3890	3040	2500	3050	3140	190	2660	3000	223	4210
14	3210	2740	1850	89	2450	3080	3120	193	2680	3000	7630	8820
15	176	3830	1810	89	2490	3080	188	3080	2720	235	7610	3700
16	168	2380	1850	2700	2520	3090	180	3090	2680	227	7610	200
17	3110	2390	81	2650	2490	3100	3220	1510	211	2980	6700	193
18	3170	3770	79	2660	133	187	3210	3760	211	2990	6700	4240
19	2980	85	3070	2660	128	180	3190	3120	2570	3000	212	3400
20	2990	79	3090	2670	3190	3280	3180	198	2730	1580	211	5450
21	3090	3020	3130	1380	3190	3240	3220	200	2720	2970	6610	7920
22	85	3130	3120	105	3220	2280	200	3260	2720	209	6040	4270
23	85	3180	3130	3110	3160	4310	200	3250	2710	204	6010	196
24	2950	2690	85	3100	3170	2270	2900	3170	200	3140	5950	194
25	2940	3170	223	3130	180	190	2880	3180	200	3130	6020	6850
26	3020	86	3120	3110	170	190	2830	3140	2740	1730	209	7240
27	2980	86	3100	3140	2800	3130	2870	202	2800	232	200	8100
28	2990	2060	2190	104	2760	3130	2860	200	2770	1700	6090	6400
29	90	4320	2170	104	—	2990	194	2980	2750	235	6100	6360
30	84	3030	3120	3150	—	3120	185	3110	2730	231	6110	154
31	3180	—	91	3210	—	2890	—	3020	—	229	6100	—
TOTAL	59033	65156	64248	66079	64155	69473	63383	71706	62073	55066	123155	106411
MEAN	1904	2172	2073	2132	2291	2241	2113	2313	2069	1776	3973	3547
MAX	3210	4320	3890	3210	6530	4310	3220	3760	3930	3590	7630	8820
MIN	69	79	79	86	128	128	163	181	196	199	200	154
MEAN†	1544	1725	1477	2705	3361	4160	2592	2669	4682	6385	2535	3787
CFSM†	.74	.83	.71	1.30	1.61	1.99	1.24	1.28	2.24	3.06	1.21	1.81
IN. †	.85	.92	.82	1.49	1.68	2.30	1.39	1.47	2.50	3.53	1.40	2.02

CAL YR 1988 TOTAL 831275 MEAN 2271 MAX 7690 MIN 66 MEAN† 1983 CFSM† .95 IN.†12.40
WTR YR 1989 TOTAL 869938 MEAN 2383 MAX 8820 MIN 69 MEAN† 3132 CFSM† 1.50 IN.†20.37

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, AND HARTWELL LAKE.

02187500 SAVANNAH RIVER NEAR IVA, S.C.

LOCATION.–Lat 34 15'20", long 82 44'42", Anderson County, S.C.-Elbert County, Ga., Hydrologic Unit 03060103, at bridge on State Highway 184, 0.5 mi upstream from Little Generostee Creek, 5.8 mi southwest of Iva, and at mile 296.5.

DRAINAGE AREA.–2,231 mi^2.

PERIOD OF RECORD.–February 1968 to current year.

PERIOD OF DAILY RECORD.–

WATER TEMPERATURE: October 1962 to September 1967, October 1968 to September 1972.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Water-discharge records for the period October, 1949 to September, 1981 are in reports published by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.–

WATER TEMPERATURE: Maximum daily, 28.0 C Aug. 30, 31, 1970; minimum daily, 3.0 C Jan. 31, 1966.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
DEC 13...	1050	42	40	–	6.80	11.0	12.0	11.6	107
JUN 12...	1200	42	41	7.30	7.20	27.0	30.0	7.9	100
SEP 20...	1015	44	43	7.39	6.90	23.5	26.5	7.4	88

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
DEC 13...	3.0	1.5	<20	12	0.070	0.030	<0.020	1.7	60	26
JUN 12...	2.0	1.0	<20	12	0.040	0.090	0.030	2.6	–	–
SEP 20...	2.0	2.0	20	12	0.030	<0.030	0.270	–	90	29

02188600 BEAVERDAM CREEK ABOVE ELBERTON, GA.

LOCATION.--Lat 34°10'07", long 82°53'48", Elbert County, Hydrologic Unit 03060103, at left bank on downstream end of bridge on County Road 310, 200 ft downstream from Little Beaverdam Creek, 3.25 mi east of Dewey Rose, and 4.3 mi north-northwest of Elberton.

DRAINAGE AREA.--72 mi².

PERIOD OF RECORD.--October 1986 to September 1987.

GAGE.--Water-stage recorder. Elevation of gage is 530 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,630 ft³/s, Mar. 1, 1987, gage height, 9.53 ft; minimum daily discharge 5.0 ft³/s, Oct. 8, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
July 17	0115	*1,090	*7.92	Sept. 22	2400	746	6.69
July 19	0215	904	7.28	Sept. 26	2115	743	6.68

Minimum daily discharge, 9.6 ft³/s, Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	23	52	56	31	165	60	69	21	54	72	29
2	12	28	43	53	29	106	57	84	20	45	95	28
3	18	20	39	52	29	94	59	61	20	68	77	27
4	20	18	37	57	32	88	67	57	21	173	63	26
5	17	69	35	48	44	157	143	65	25	146	58	23
6	14	59	32	45	43	122	121	84	30	110	56	22
7	13	38	29	45	41	105	87	65	54	89	56	23
8	13	44	28	45	38	79	80	55	79	71	52	24
9	12	42	27	44	35	70	101	80	67	56	48	24
10	12	39	27	41	32	63	92	136	52	48	47	23
11	11	37	27	39	30	58	80	96	40	40	45	23
12	11	32	25	40	30	57	71	67	38	36	41	26
13	9.9	21	24	69	29	56	66	54	30	33	40	58
14	9.6	18	24	68	28	53	62	54	26	32	51	52
15	10	17	24	60	29	50	79	71	27	91	52	43
16	11	18	24	56	29	48	81	54	54	88	48	60
17	12	22	24	50	27	48	67	44	75	505	46	52
18	12	22	24	47	29	47	61	39	51	476	42	39
19	14	21	23	44	36	45	59	36	46	562	40	31
20	14	21	22	41	40	45	57	36	56	281	39	29
21	16	20	23	38	69	59	55	35	84	251	39	44
22	17	19	23	37	95	88	55	34	99	376	39	457
23	16	26	23	36	71	190	52	39	98	212	37	438
24	15	34	24	34	61	320	49	37	79	167	35	162
25	12	27	26	33	55	174	46	32	58	141	34	117
26	12	23	25	32	52	127	43	30	49	117	33	446
27	12	58	24	33	50	100	40	27	37	104	42	371
28	12	155	24	31	126	85	38	25	32	92	38	178
29	14	95	24	30	—	75	38	22	69	82	34	136
30	12	65	24	32	—	73	48	22	69	76	31	142
31	14	—	34	32	—	68	—	21	—	73	30	—
TOTAL	408.5	1131	864	1368	1240	2915	2014	1631	1506	4695	1460	3153
MEAN	13.2	37.7	27.9	44.1	44.3	94.0	67.1	52.6	50.2	151	47.1	105
MAX	20	155	52	69	126	320	143	136	99	562	95	457
MIN	9.6	17	22	30	27	45	38	21	20	32	30	22
CFSM	.18	.52	.39	.61	.62	1.31	.93	.73	.70	2.10	.65	1.46
IN.	.21	.58	.45	.71	.64	1.51	1.04	.84	.78	2.43	.75	1.63

CAL YR 1988	TOTAL	13565.5	MEAN	37.1	MAX	380	MIN	7.2	CFSM	.52	IN	7.01
WTR YR 1989	TOTAL	22385.5	MEAN	61.3	MAX	562	MIN	9.6	CFSM	.85	IN	11.57

02192000 BROAD RIVER NEAR BELL, GA.

LOCATION.--Lat 33°58'27", long 82°46'12", Elbert-Wilkes County line, Hydrologic Unit 03060104, at downstream side of main channel pier of bridge on State Highway 17, 0.5 mi downstream from Long Creek, 1 mi south of Bells Crossroads, and 12 mi southeast of Elberton.

DRAINAGE AREA.--1,430 mi^2, approximately.

PERIOD OF RECORD.--October 1926 to September 1932, August 1937 to current year. Monthly discharge only for October 1926, August to September 1932, published in WSP 1303.

REVISED RECORDS.--WSP 1172: 1928-30. WSP 1383: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 357.16 ft above National Geodetic Vertical Datum of 1929. Prior to October 1928, nonrecording gage at railroad bridge about 1 mi downstream at datum 1.12 ft lower. October 1928 to July 1932, and August 1937 to January 1939, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges: Aug. 5-30. Records good, except those for the period of estimated daily discharges, which are fair. Records of chemical analyses for the 1970-75 water years are in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--58 years (water years 1927-32, 1938-89), 1,758 ft^3/s, 16.69 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,400 ft^3/s, Oct. 2, 1929, gage height, 34.8 ft, from rating curve extend above 30,000 ft^3/s on basis of slope-conveyance studies; minimum daily, 96 ft^3/s, July 23, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1926, that of Oct. 2, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 14,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 17	1400	*12,600	*16.54

Minimum daily discharge, 219 ft^3/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	325	700	661	536	3180	1030	765	479	1050	1280	653
2	228	427	602	992	524	2170	924	2000	463	906	1160	624
3	462	408	544	1060	518	1660	874	1700	444	861	1160	569
4	860	361	506	1130	512	1500	894	1060	453	2610	1010	521
5	805	388	482	979	530	1750	1360	1030	460	3930	860	482
6	574	575	461	820	639	2290	1870	1410	529	2910	760	463
7	435	585	447	768	700	2440	1400	1280	622	2220	700	484
8	365	508	436	758	687	1970	1260	981	625	1780	640	518
9	329	447	428	719	683	1460	2230	1330	599	1420	600	518
10	306	420	428	681	617	1240	2430	3680	609	1130	580	492
11	291	408	430	669	573	1110	2040	2620	587	958	570	464
12	279	396	425	709	550	1030	1630	1600	518	854	570	482
13	270	379	419	820	535	963	1340	1220	471	782	570	524
14	261	369	425	1050	523	906	1190	1050	463	735	570	521
15	255	366	481	1020	517	867	3200	1250	452	913	560	504
16	255	363	490	972	516	848	4020	1160	707	2000	700	900
17	257	394	490	917	512	814	2410	980	2030	10800	640	864
18	255	473	471	822	517	783	1400	850	2220	6680	600	671
19	253	476	431	752	566	761	1180	778	1220	6060	580	553
20	266	431	423	705	641	739	1090	746	1330	4490	570	496
21	284	410	420	674	1090	767	1030	743	4440	4690	550	1050
22	307	405	413	640	2570	1110	958	731	5910	4190	530	5710
23	331	414	402	610	1920	3140	906	727	5000	3070	520	4560
24	314	473	403	591	1360	5760	851	749	2710	2320	510	1820
25	294	480	420	577	1120	3620	809	693	1770	1920	540	1210
26	280	453	453	573	979	2130	766	636	1380	1620	670	2830
27	275	495	464	571	901	1630	723	594	1100	1350	960	4770
28	272	1310	434	577	1150	1360	681	556	935	1150	850	2280
29	275	1360	425	557	---	1210	691	519	1300	1010	700	1590
30	277	905	422	536	---	1160	695	498	1270	962	600	1470
31	280	---	449	542	---	1150	---	488	---	1060	599	---
TOTAL	10414	15204	14224	23452	22486	51518	41882	34424	41096	76431	21709	38593
MEAN	336	507	459	757	803	1662	1396	1110	1370	2466	700	1286
MAX	860	1360	700	1130	2570	5760	4020	3680	5910	10800	1280	5710
MIN	219	325	402	536	512	739	681	488	444	735	510	463
CFSM	.24	.36	.32	.53	.56	1.16	.98	.78	.96	1.72	.49	.90
IN.	.27	.40	.37	.61	.58	1.34	1.09	.90	1.07	1.99	.56	1.00

CAL YR 1988	TOTAL	250522	MEAN	684	MAX	8760	MIN	125	CFSM	.48	IN	6.52
WTR YR 1989	TOTAL	391433	MEAN	1072	MAX	10800	MIN	219	CFSM	.75	IN	10.18

02193340 KETTLE CREEK NEAR WASHINGTON, GA.

LOCATION.--Lat 33°40'57", long 82°51'29", Wilkes County, Hydrologic Unit 03060105, on right bank, 300 ft upstream from County Road 68, 1.35 mi upstream from Little Kettle Creek, and 7.8 mi southwest of Washington.

DRAINAGE AREA.--33.9 mi^2.

PERIOD OF RECORD.--April 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 416.06 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good for discharges greater than or equal to 100 ft^3/s; fair for discharges greater than or equal to 10 ft^3/s and less than 100 ft^3/s; and poor for discharges less than 10 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,430 ft^3/s, Sept. 30, 1989 stage rising, peak occurred Oct. 1, 1989; minimum daily discharge, 0.12 ft^3/s, Aug. 28, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,430 ft^3/s, Sept. 30, stage rising, peak occurred Oct. 1, 1989; maximum peak discharge, 1,850 ft^3/s, Apr. 15, gage height, 11.45 ft, no other peak greater than base discharge of 600 ft^3/s; minimum daily discharge, 0.44 ft^3/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	2.2	6.0	8.9	4.5	21	9.9	104	5.4	7.4	6.5	5.8
2	2.1	2.6	5.2	6.3	4.5	16	9.1	73	5.5	6.7	16	3.7
3	17	2.0	4.6	8.6	4.5	23	9.0	26	5.5	8.1	6.5	2.6
4	12	1.9	4.4	12	4.5	21	10	20	5.5	19	4.7	2.4
5	3.6	5.2	4.1	7.7	7.1	20	31	40	6.1	24	3.9	2.4
6	1.8	4.5	4.4	6.7	12	38	18	41	11	12	3.7	4.7
7	1.3	1.9	4.1	6.3	8.9	34	16	22	9.6	8.8	3.5	5.3
8	1.2	1.5	4.0	6.0	8.1	22	34	18	7.7	7.3	3.1	5.0
9	1.1	1.5	3.9	6.2	6.5	15	116	49	9.4	6.5	3.5	3.5
10	1.2	1.6	4.0	6.9	5.8	13	117	51	7.8	5.9	3.3	2.8
11	1.1	1.5	3.9	6.3	5.6	11	70	29	6.4	5.5	3.0	3.1
12	1.1	1.5	3.6	5.9	5.6	11	37	21	6.5	5.1	2.9	15
13	1.0	1.4	3.5	11	5.3	9.8	27	18	7.3	4.6	3.2	4.7
14	1.1	1.5	3.7	11	5.4	9.2	21	16	8.1	4.4	4.5	3.3
15	1.3	1.5	3.7	9.2	5.2	9.0	585	18	11	4.7	4.0	18
16	1.4	1.7	3.9	8.6	5.2	8.7	93	14	36	6.0	4.1	25
17	1.1	5.2	3.7	7.3	5.5	8.3	48	12	22	17	3.5	8.1
18	.77	4.5	3.4	6.5	5.6	8.0	37	11	12	10	3.1	5.5
19	.77	2.7	3.4	6.1	6.4	7.3	31	11	15	26	3.5	4.6
20	.74	2.5	3.5	5.9	7.1	7.1	26	11	20	84	2.9	4.6
21	1.2	2.3	3.4	5.4	58	10	24	10	40	26	2.5	24
22	2.0	2.2	3.6	5.0	43	14	21	8.9	43	15	2.4	144
23	1.5	3.8	3.7	5.0	25	167	19	8.5	20	11	2.8	23
24	1.2	7.6	3.8	4.9	19	83	17	7.9	11	9.1	2.1	11
25	1.2	4.0	3.7	4.8	18	35	15	7.5	8.9	7.2	2.1	12
26	1.2	3.1	3.6	4.7	16	23	14	7.4	7.8	6.2	2.7	34
27	1.6	4.7	3.2	4.9	14	18	13	7.0	7.1	5.7	3.5	20
28	1.7	25	3.4	4.8	21	15	12	6.5	7.9	5.2	2.7	13
29	1.6	13	3.5	4.5	—	13	12	6.1	9.9	4.9	2.6	13
30	1.4	8.0	3.4	4.8	—	15	11	5.8	8.0	5.2	2.6	66
31	1.5	—	6.1	4.8	—	13	—	5.6	—	18	4.9	—
TOTAL	68.22	122.6	122.4	207.0	337.3	718.4	1503.0	686.2	381.4	386.5	120.3	490.1
MEAN	2.20	4.09	3.95	6.68	12.0	23.2	50.1	22.1	12.7	12.5	3.88	16.3
MAX	17	25	6.1	12	58	167	585	104	43	84	16	144
MIN	.44	1.4	3.2	4.5	4.5	7.1	9.0	5.6	5.4	4.4	2.1	2.4
CFSM	.07	.12	.12	.20	.35	.68	1.48	.65	.38	.37	.11	.48
IN.	.07	.13	.13	.23	.37	.79	1.65	.75	.42	.42	.13	.54

CAL YR 1988	TOTAL	3733.35	MEAN	10.2	MAX	443	MIN	.12	CFSM	.30	IN	4.10
WTR YR 1989	TOTAL	5143.42	MEAN	14.1	MAX	585	MIN	.44	CFSM	.42	IN	5.64

02196820 BUTLER CREEK AT FORT GORDON, GA.

LOCATION.--Lat 33°26'33", long 82°07'43", Richmond County, Hydrologic Unit 03060106, on upstream side of abandoned bridge 600 ft upstream from U.S. Highways 78 and 278 at Fort Gordon.

DRAINAGE AREA.--7.5 mi^2.

PERIOD OF RECORD.--October 1968 to current year.

REVISED RECORDS.--WDR GA-83-1: 1970(M), 1972(M), 1975-78(M), 1980(M), 1982(M).

GAGE.--Water-stage recorder. Elevation of gage is 280 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--21 years, 7.92 ft^3/s, 14.34 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 500 ft^3/s, Mar. 3, 1971, gage height, 7.00 ft, from floodmark; minimum daily discharge, 0.06 ft^3/s, Aug. 24, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 20	0045	*148	*3.68

Minimum daily discharge, 0.78 ft^3/s, June 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	47	4.4	24	4.2	11	6.4	20	1.0	1.3	5.0	2.6
2	2.6	9.5	4.2	8.1	4.3	14	6.0	22	.88	1.1	4.3	2.0
3	29	6.1	4.3	13	4.2	29	5.9	6.8	.80	1.6	3.1	1.6
4	20	5.6	4.4	12	4.0	14	6.1	4.8	.91	4.7	2.3	1.5
5	6.0	14	4.1	6.5	4.5	15	8.2	4.9	1.2	4.0	1.8	1.4
6	3.6	7.0	4.1	5.8	8.5	21	6.2	9.8	5.4	2.9	1.5	1.8
7	2.9	4.7	4.2	5.5	6.3	13	8.5	4.3	3.7	3.4	1.3	2.8
8	2.7	4.1	4.1	5.3	4.6	9.7	13	3.6	2.4	1.7	1.2	2.2
9	2.6	4.2	4.3	11	4.0	8.7	36	10	11	5.7	1.4	1.8
10	2.4	4.2	4.6	11	3.9	7.9	57	21	3.6	16	1.7	1.5
11	2.3	3.9	4.4	7.3	4.0	7.3	28	7.6	1.9	3.3	1.5	1.3
12	2.1	3.7	4.2	6.4	3.9	7.0	14	5.1	1.4	2.0	1.5	1.3
13	2.0	3.7	4.1	7.9	3.8	6.7	11	4.2	1.0	7.8	1.4	3.3
14	2.0	3.8	4.1	6.8	3.8	6.5	9.5	3.7	.86	2.8	4.1	2.4
15	2.2	3.7	4.1	7.5	3.9	6.3	22	4.0	.78	6.0	8.4	21
16	2.3	3.8	8.2	8.1	3.8	7.8	13	3.4	6.3	16	3.7	11
17	2.3	13	6.0	5.9	3.7	6.7	9.3	2.9	8.4	29	7.6	4.3
18	2.2	6.3	4.5	5.4	5.0	6.2	8.1	2.6	2.9	7.0	11	2.9
19	2.1	4.9	4.3	5.1	5.2	5.5	7.3	2.5	3.2	23	4.3	2.4
20	2.0	5.0	4.2	5.2	8.7	5.3	9.9	3.0	7.3	57	3.2	2.4
21	7.2	4.5	4.3	4.8	50	11	8.1	2.5	18	22	3.0	50
22	6.4	4.2	4.3	4.5	37	10	6.8	2.2	9.1	19	2.3	72
23	3.3	6.6	4.6	4.6	14	62	6.0	2.1	5.1	9.9	1.9	14
24	2.8	7.2	4.5	4.4	12	34	5.2	1.8	3.1	8.2	1.6	7.4
25	2.4	4.8	4.3	4.3	11	15	4.5	1.6	2.2	5.8	1.6	6.7
26	2.5	4.6	3.9	4.2	9.7	11	4.1	1.6	1.7	6.0	2.2	10
27	3.9	5.0	4.0	4.4	8.5	9.6	3.6	1.4	1.4	4.2	9.4	8.2
28	3.6	8.7	4.6	4.1	17	8.8	3.3	1.2	1.2	4.4	3.2	4.8
29	3.4	5.3	4.9	4.3	---	8.2	3.3	1.1	1.7	3.4	2.0	4.9
30	3.1	4.6	4.4	4.6	---	8.4	3.2	1.1	1.9	2.7	1.5	7.7
31	25	---	8.4	4.7	---	7.5	---	1.1	---	3.5	3.5	---
TOTAL	158.6	213.7	143.0	216.7	253.5	394.1	333.5	163.9	110.33	285.4	102.5	257.2
MEAN	5.12	7.12	4.61	6.99	9.05	12.7	11.1	5.29	3.68	9.21	3.31	8.57
MAX	29	47	8.4	24	50	62	57	22	18	57	11	72
MIN	1.7	3.7	3.9	4.1	3.7	5.3	3.2	1.1	.78	1.1	1.2	1.3
CFSM	.68	.95	.62	.93	1.21	1.69	1.48	.71	.49	1.23	.44	1.14
IN.	.79	1.06	.71	1.07	1.26	1.95	1.65	.81	.55	1.42	.51	1.28

CAL YR 1988	TOTAL	2031.68	MEAN	5.55	MAX	65	MIN	.18	CFSM	.74	IN	10.08
WTR YR 1989	TOTAL	2632.43	MEAN	7.21	MAX	72	MIN	.78	CFSM	.96	IN	13.06

02197000 SAVANNAH RIVER AT AUGUSTA, GA.

LOCATION.- Lat 33°22'25", long 81°56'35", Richmond County, Ga.-Aiken County, S.C., Hydrologic Unit 03060106, at New Savannah Bluff lock and dam, 0.2 mi upstream from Butler Creek, 12.0 mi downstream from Augusta, and at mile 187.4.

DRAINAGE AREA.--7,508 mi^2, including that of Butler Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1883 to December 1891, January 1896 to December 1906, January 1925 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at site of Fifth Street gage from 1875 to 1952 and at New Savannah Bluff lock and dam sites since 1937 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1303: 1927-39 (monthly runoff). WSP 1433: 1888, 1896-99, 1902-03, 1906-07, and 1932(M). WDR SC-77-1: 1975.

GAGE.--Data collection platform. Datum of gage is 96.58 ft, National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers benchmark). Oct. 1, 1883 to Dec. 31, 1891, Jan. 1, 1896 to Dec. 31, 1906, Jan. 1, 1925 to Sept. 30, 1932, nonrecord or recording gage at Fifth Street Bridge at datum 102.06 ft, NGVD (levels by Southeastern Engineering Co.). Oct. 1, 1932 to Sept. 30, 1936, recording gage at Thirteenth Street Bridge at datum 104.56 ft, NGVD (levels by U.S. Army Corps of Engineers) Oct. 1, 1936 to Nov. 10, 1948, recording gage at site 0.2 mi downstream from present site and at present datum.

REMARKS.--Estimated daily discharges: Oct. 14, Feb. 2-8, 18-21, May 11-18, and July 1-2. Records good, except those for periods of estimated daily discharges, which are poor. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Thurmond Lake. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, 02189004, and 02194500). Records of chemical analyses for the water years 1968-72 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--82 years (1884-91, 1897-1906, 1926-89), 9,969 ft^3/s, 18.03 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 350,000 ft^3/s, Oct. 3, 1929; maximum gage height, 46.3 ft, Sept. 27, 1929 (at site and datum then in use); minimum discharge, 648 ft^3/s, Sept. 24, 1939, from rating curve extended below 1,400 ft^3/s minimum daily, 1,040 ft^3/s, Oct. 2, 1927.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred in 1796, discharge, 360,000 ft^3/s, gage height, 40 ft, marked by local residents, at site and datum of Fifth Street gage, by conveyance-slope study.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,200 ft^3/s, Sept. 22, gage height, 15.33 ft; minimum daily discharge, 3,800 ft^3/s, Aug. 20.

02197000 SAVANNAH RIVER AT AUGUSTA, GA.--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4360	4610	4510	4630	4110	6420	5170	4180	4250	4460	7280	9450
2	4050	4660	4690	4510	4070	8080	4600	4340	4260	4140	6330	7850
3	4520	4410	4580	4380	4090	6400	4230	4980	4040	4050	5930	4530
4	9510	4550	4390	4790	4170	4930	4180	4990	4100	4660	5470	4160
5	14600	4560	4370	6140	4090	5800	4210	4810	4090	7740	4410	8730
6	6390	4420	4290	5610	4200	5760	4150	4540	4190	11400	4220	10400
7	5380	4330	4310	4150	4290	8120	4570	4350	4150	5090	4130	10000
8	5400	4240	4180	4130	4360	8200	4860	4310	4140	4920	4360	10900
9	4760	4380	4240	4150	5190	5860	5330	4420	4750	4310	4730	9650
10	4190	4290	4440	4530	5020	4880	8810	5180	4930	4550	5040	4730
11	4210	4410	4330	5810	4440	4310	10400	7350	4570	4790	4410	4280
12	4070	4450	4220	5760	4140	4150	9250	6720	4540	4990	4040	9220
13	4140	4320	4440	4950	4100	4300	5750	5100	4180	5700	4030	11500
14	4790	4220	4350	5420	4090	4480	4680	4400	4120	6470	4050	9680
15	4150	4230	4560	5390	4090	4650	5390	4380	4270	5600	4270	6540
16	4100	4420	4640	4220	4090	4340	10500	4750	4620	5180	4930	7140
17	4040	4890	4280	4310	4660	4630	16000	4620	4650	5450	5000	4590
18	4170	4610	4150	5110	4800	4600	7670	4640	4240	8650	5280	4070
19	4250	4600	4080	5320	4380	4180	4780	5090	4350	7360	4000	5620
20	4230	4530	4200	4690	4260	4380	4940	4460	4470	7220	3800	6690
21	4280	4360	4200	4330	4310	4450	5100	4380	6730	6710	3820	10200
22	4460	4170	4240	4050	12900	4620	4320	4310	10400	8620	4190	16600
23	4240	4360	4100	4210	15000	7930	4150	4420	7570	7900	6900	14500
24	4120	4340	4050	4140	8700	13200	4430	4450	6050	6080	9020	7110
25	4240	4590	4070	4550	5970	17200	4870	4450	4870	7950	6660	4270
26	4700	5010	4130	5530	5330	9240	4420	4340	4250	7390	5960	5600
27	4850	4310	4120	5060	4630	5440	4470	4380	4440	6110	4390	7480
28	4600	4100	4090	4520	4630	5210	4340	4080	4440	5150	4100	7120
29	4130	4410	4250	4130	—	4790	4120	4080	4220	4710	8730	5480
30	4140	4480	4560	4210	—	4820	4120	4110	4420	4280	11700	6330
31	4050	—	4410	4030	—	5250	—	4230	—	4410	10600	—
TOTAL	153120	133260	133470	146760	148110	190620	173810	144840	144300	186040	171780	234420
MEAN	4939	4442	4305	4734	5290	6149	5794	4672	4810	6001	5541	7814
MAX	14600	5010	4690	6140	15000	17200	16000	7350	10400	11400	11700	16600
MIN	4040	4100	4050	4030	4070	4150	4120	4080	4040	4050	3800	4070

CAL YR 1988 TOTAL 1789090 MEAN 4888 MAX 14600 MIN 3880 MEAN† 4267 CFSM† .57 IN.† 7.72
WTR YR 1989 TOTAL 1960530 MEAN 5371 MAX 17200 MIN 3800 MEAN† 7240 CFSM† .96 IN.† 13.10

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, RICHARD B. RUSSELL RESERVOIR, AND THURMOND LAKE.

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.

LOCATION.--Lat 33°13'01", long 81°46'04", Aiken County, S.C.-Burke County, Ga., Hydrologic Unit 03060106, on left bank 0.5 mi downstream from Upper Three Runs Creek, 6.2 mi south of Jackson, 15.2 mi upstream from Steel Creek, and at mile 156.8.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year, discharge defined below 22,000 ft^3/s, only.

GAGE.--Water-stage recorder. Datum of gage is 77.0 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: July 17-19, 22. Records good, except those for periods of estimated daily discharges, which are fair. Water is diverted above and below gage by the Savannah River Plant with the volume diverted varying from day to day. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Thurmond Lake, and affected, to some degree, by the Savannah River Plant operations. (See "Lakes and Reservoirs in Savannah River Basin," station 02178500, 02179500, 02187250, 02189004, and 02194500.) At times of high flow, bankfull capacity is exceeded in the intervening channel reach.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, undetermined, Apr. 11, 1983; maximum gage height, 21.57 ft, Apr. 11, 1983; minimum daily discharge, 3,220 ft^3/s, Dec. 9, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,800, Sept. 23; gage height, 14.90 ft; minimum daily discharge, 4,360 ft^3/s, June 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4710	4850	4960	5090	4560	5500	5900	4740	4520	4910	6380	10800
2	4650	5260	5020	5240	4570	8810	5520	5100	4480	4770	7900	9730
3	4610	5110	5030	5100	4530	8060	4990	5490	4420	4680	6800	6870
4	6880	5130	4940	5090	4600	6900	4840	5820	4360	4740	6530	5020
5	13700	5080	4840	5780	4620	6450	4790	5510	4370	6490	5510	6540
6	11300	5140	4770	6520	4620	7230	4760	5220	4440	12200	4880	10100
7	6850	4980	4750	5110	4690	7430	4760	4980	4520	6000	4710	10900
8	5840	4880	4730	4590	4760	9940	5390	4810	4460	5900	4650	11300
9	5770	4830	4670	4570	5120	8100	5550	4830	4780	5300	5000	11600
10	5020	4840	4790	4590	5450	5970	7720	5110	5350	5550	5200	7630
11	4840	4850	4830	5430	5140	5330	12100	6700	5290	5780	5170	5130
12	4710	4880	4780	6270	4700	4960	12100	8320	5000	5300	4670	7000
13	4610	4860	4760	5810	4580	4880	9400	5710	4670	5700	4520	10900
14	4990	4770	4810	5270	4560	4890	6250	4960	4520	6730	4470	11500
15	4900	4700	4860	6250	4550	5220	5660	4910	4450	6750	4570	8780
16	4690	4780	4990	5060	4530	4990	8650	5200	4690	5910	4940	7600
17	4610	5090	4960	4770	4600	5020	14100	5140	4980	5830	5410	6520
18	4570	5220	4700	4890	5300	5230	14000	4980	4840	7620	5510	5010
19	4770	5110	4630	5710	4780	4910	7490	5290	4640	8570	5460	4910
20	4680	5050	4560	5280	4660	4810	5680	5120	4950	8110	4700	6890
21	4770	4960	4640	5000	4720	4880	5950	4810	5590	7700	4500	7870
22	4850	4780	4650	4610	8700	4960	5510	4730	9570	9600	4470	14600
23	4860	4790	4640	4580	15200	6020	5040	4690	11700	8900	5460	16600
24	4750	4910	4520	4590	13900	11300	4960	4750	8060	7650	8680	13700
25	4590	4920	4530	4610	8440	16500	5230	4750	6490	7750	8410	7640
26	4980	5360	4520	5400	6580	15500	5240	4670	5360	8770	6960	5790
27	5180	5160	4570	5650	5590	9400	4990	4680	4910	7850	5910	7220
28	5240	4810	4590	5210	5270	6400	4970	4540	4950	6840	4900	8100
29	4830	4730	4540	4710	—	5810	4800	4420	4840	6210	6450	7100
30	4700	4910	4850	4650	—	5510	4680	4380	4820	5300	11000	6760
31	4650	—	4810	4600	—	5570	—	4440	—	5500	11600	—
TOTAL	170100	148740	147240	160030	163320	216480	201020	158800	160020	208910	185320	260110
MEAN	5487	4958	4750	5162	5833	6983	6701	5123	5334	6739	5978	8670
MAX	13700	5360	5030	6520	15200	16500	14100	8320	11700	12200	11600	16600
MIN	4570	4700	4520	4570	4530	4810	4680	4380	4360	4680	4470	4910

CAL YR 1988	TOTAL	1907780	MEAN	5213	MAX	13700	MIN	4150	MEAN†	4592
WTR YR 1989	TOTAL	2180090	MEAN	5973	MAX	16600	MIN	4360	MEAN†	7842

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, RICHARD B. RUSSELL RESERVOIR, AND THURMOND LAKE.

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.–Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.–October 1972 to current year.
PERIOD OF DAILY RECORD.–
WATER TEMPERATURE: October 1971 to current year.
INSTRUMENTATION.–U.S. Geological Survey data-collection platform.
EXTREMES FOR PERIOD OF DAILY RECORD.–
WATER TEMPERATURE: Maximum, 28.5°C July 21, 1989; minimum, 4.5°C Jan. 19, 20, 22, 23, Feb. 1, 1977, Feb. 9, 1978, Jan. 12, 1982.
EXTREMES FOR CURRENT YEAR.–
WATER TEMPERATURES: Maximum, 28.5°C Aug. 23; minimum, 8.0°C Feb. 25.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.0	22.5	17.5	16.5	14.0	13.0	13.0	12.0	12.5	11.5	11.5	11.0
2	23.5	23.0	17.0	16.5	13.0	12.5	12.5	12.0	13.0	12.0	11.5	11.0
3	23.0	22.5	16.0	15.5	12.5	12.0	12.0	12.0	13.5	12.5	11.0	10.5
4	22.5	22.0	16.5	15.5	12.5	12.0	12.0	11.5	14.0	13.5	11.0	11.0
5	22.0	20.5	17.0	16.5	12.5	11.5	11.5	11.0	14.0	14.0	12.5	11.0
6	20.5	19.5	16.5	16.0	12.0	11.5	11.0	10.5	14.0	13.5	13.5	12.5
7	19.5	19.0	16.0	15.5	12.0	11.5	11.5	11.0	14.5	14.0	13.0	12.0
8	19.0	18.5	16.0	15.5	12.0	11.5	12.5	11.5	14.0	13.0	12.0	10.5
9	18.5	18.0	17.0	16.5	12.0	12.0	12.5	12.0	13.0	12.0	10.5	10.0
10	18.5	17.5	17.5	16.5	12.0	11.5	12.0	11.5	12.0	11.0	11.0	10.0
11	18.5	17.5	17.5	17.0	12.0	12.0	11.5	11.0	11.0	10.0	11.5	10.5
12	19.0	18.0	17.0	16.5	12.0	10.5	11.5	11.0	11.0	10.0	13.0	11.5
13	18.5	17.5	17.5	16.5	10.5	10.0	11.5	11.0	12.0	10.5	13.5	12.5
14	18.0	17.0	17.0	16.5	10.0	9.5	11.5	10.5	13.0	12.0	14.0	13.0
15	17.5	17.0	16.5	16.0	10.5	10.0	11.0	10.5	14.0	13.0	16.0	14.0
16	17.5	17.0	17.0	16.0	10.5	10.5	11.0	10.5	—	—	16.0	15.5
17	18.0	17.0	17.5	17.0	10.5	10.0	10.5	10.0	—	—	16.5	16.0
18	19.0	18.0	17.0	16.0	10.0	9.5	10.0	9.5	—	—	17.5	16.0
19	19.5	18.5	16.5	16.5	10.0	9.5	10.0	9.5	12.0	12.0	18.0	17.0
20	19.0	19.0	17.5	16.5	10.0	9.5	10.5	10.0	12.0	11.0	17.0	16.5
21	19.0	18.5	17.0	16.5	10.5	9.5	10.5	10.0	11.5	11.0	16.5	16.0
22	18.5	18.0	16.5	15.5	11.5	10.5	10.0	9.5	11.5	11.0	16.5	14.5
23	18.0	17.5	15.5	15.0	12.5	11.5	10.0	9.5	10.5	10.0	14.5	12.5
24	18.0	17.5	15.5	15.0	13.5	12.5	10.0	9.5	10.0	8.5	12.5	11.5
25	17.5	17.0	15.0	14.0	14.0	13.5	10.5	9.5	9.0	8.0	11.5	11.0
26	17.5	17.0	15.0	14.0	13.5	12.5	11.0	10.0	10.0	8.5	13.0	11.0
27	18.0	17.5	16.0	15.0	13.0	12.0	12.0	11.0	11.0	10.0	14.5	13.0
28	18.5	17.5	16.0	15.0	13.5	13.0	12.0	11.5	11.5	11.0	16.0	14.5
29	18.5	18.0	15.0	14.0	13.0	12.0	12.5	11.5	—	—	17.5	16.5
30	18.5	18.0	14.0	14.0	12.0	11.5	12.5	12.0	—	—	18.0	17.5
31	18.5	17.0	—	—	12.0	12.0	12.5	11.5	—	—	18.5	17.5
MONTH	23.5	17.0	17.5	14.0	14.0	9.5	13.0	9.5	14.5	8.0	18.5	10.0

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.5	17.0	22.0	21.5	25.5	24.5	25.0	24.5	28.0	27.0	23.0	22.5
2	17.0	16.0	21.5	20.5	25.0	24.5	25.0	24.0	27.0	26.0	23.0	22.5
3	17.0	16.5	21.0	20.5	24.5	24.0	24.5	24.0	27.0	26.0	24.0	23.0
4	17.5	16.5	20.5	20.0	25.0	24.0	24.5	24.0	26.5	25.5	24.0	23.0
5	17.5	17.0	20.0	19.5	25.0	24.0	24.5	24.0	27.0	26.0	24.0	23.5
6	18.0	17.0	20.5	19.5	24.5	23.5	24.5	23.0	28.0	26.5	24.0	21.5
7	17.5	16.5	20.0	19.5	24.5	23.0	25.0	24.0	27.5	26.5	21.5	21.5
8	16.5	15.5	19.5	18.5	24.0	23.5	25.5	24.5	27.0	26.0	22.0	21.5
9	15.5	15.0	19.5	18.5	23.5	23.0	26.5	25.0	25.5	25.0	22.0	21.5
10	15.0	14.0	19.5	18.5	23.5	22.5	27.5	25.5	25.0	24.0	23.5	22.5
11	14.0	13.5	19.0	18.5	23.5	22.5	27.5	26.0	24.0	23.0	24.0	23.0
12	13.5	12.5	18.5	18.0	24.0	23.0	28.0	27.0	23.5	22.5	25.5	24.0
13	14.0	12.5	18.5	17.5	25.0	24.0	27.5	26.5	24.0	22.5	25.5	23.0
14	15.0	13.5	19.5	18.5	26.0	24.5	27.0	26.0	24.0	23.5	23.5	22.5
15	15.5	15.0	20.5	19.0	26.0	25.0	26.0	25.0	24.5	23.5	23.5	23.0
16	16.5	15.0	21.0	19.5	25.5	24.5	26.0	25.0	25.0	23.5	24.0	23.0
17	16.0	15.5	21.5	20.5	24.5	23.5	26.0	25.5	25.0	24.5	24.5	23.5
18	17.0	15.5	22.0	21.0	24.5	23.5	25.5	25.0	24.5	23.5	24.5	23.5
19	18.5	17.0	21.5	21.0	24.5	23.5	26.0	25.0	25.0	23.5	23.5	23.0
20	18.5	17.5	21.0	20.5	24.5	23.5	—	—	25.5	24.5	23.5	23.0
21	18.5	17.5	22.0	21.0	25.0	23.5	—	—	26.0	25.0	23.0	22.0
22	19.5	18.0	22.0	21.0	24.5	23.0	—	—	27.0	25.5	22.0	21.5
23	19.5	18.5	22.5	21.5	23.0	22.5	—	—	28.5	27.0	23.0	21.5
24	20.0	18.5	23.5	22.0	24.0	23.0	25.5	24.0	28.0	25.0	23.0	21.5
25	21.0	19.5	23.5	22.5	24.5	23.5	26.0	25.0	24.5	24.0	21.5	21.0
26	22.0	20.5	23.5	23.0	25.5	24.5	26.5	25.0	25.0	23.5	21.5	21.0
27	22.5	21.5	24.0	23.0	26.5	25.0	26.0	25.0	25.0	24.5	21.5	20.5
28	22.5	21.5	24.0	23.0	27.0	26.0	25.5	24.0	26.5	25.0	21.0	20.0
29	22.5	22.0	24.0	23.0	26.5	26.0	26.0	25.5	26.5	25.0	21.5	20.5
30	22.5	22.0	24.5	23.5	26.0	25.0	—	—	26.0	23.0	21.5	21.0
31	—	—	25.0	24.0	—	—	—	—	23.5	22.0	—	—
MONTH	22.5	12.5	25.0	17.5	27.0	22.5	28.0	23.0	28.5	22.0	25.5	20.0
YEAR	28.5	8.0										

02197370 SAVANNAH RIVER BELOW STEEL CREEK, NEAR MILLETT, S.C.

LOCATION.--Lat 33°04'58", long 81°35'54", Allendale County, S.C.-Burke County, Ga., Hydrologic Unit 3060106, on left bank 2.8 mi downstream from Steel Creek, 12.6 mi upstream from Lower Three Runs, 3.7 mi west of Millett, and at mile 138.8.

PERIOD OF RECORD.--Water years 1972 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1971 to current year.

INSTRUMENTATION.--U.S. Geological Survey mini-monitor and data-collection platform.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 31.5°C Sept. 7, 1982; minimum, 4.0°C Jan. 20, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 28.0°C, July 31, Aug. 1, 3, 6-7, 23-24; minimum, 9.0°C Dec. 18-19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.5	23.0	17.5	16.5	14.0	13.5	13.0	12.0	12.5	12.0	12.0	12.0
2	23.5	23.0	17.0	16.5	13.5	12.5	12.5	12.0	13.0	12.5	12.0	12.0
3	23.5	22.5	16.5	16.0	12.5	11.5	12.0	12.0	14.0	12.5	12.0	11.5
4	22.5	22.0	16.0	15.5	12.5	12.0	11.5	11.0	14.5	14.0	12.0	11.5
5	22.0	21.0	17.0	16.0	12.5	11.5	11.5	11.0	14.5	12.5	13.0	11.0
6	21.0	19.5	16.5	15.0	12.0	11.0	11.0	10.5	14.0	13.0	14.0	13.0
7	19.5	19.0	16.5	14.5	12.0	11.0	11.5	11.0	—	—	14.0	13.0
8	19.5	18.5	16.0	15.5	12.0	11.5	12.5	11.5	14.5	13.5	13.0	12.0
9	19.0	18.0	17.0	16.0	12.0	12.0	12.5	12.0	14.0	13.0	12.0	11.5
10	18.5	17.5	17.5	17.0	12.0	11.5	12.0	11.5	13.0	12.0	12.0	11.0
11	19.0	17.5	17.5	17.0	12.0	11.5	11.5	11.0	12.0	11.0	12.5	11.5
12	19.0	18.0	17.0	16.5	11.5	10.5	11.5	11.5	11.5	11.0	13.5	12.0
13	18.5	16.5	17.0	16.5	10.5	9.5	12.0	11.5	12.0	11.5	14.0	13.5
14	18.0	17.0	17.5	16.5	10.5	9.5	11.5	10.5	13.0	12.0	15.0	14.0
15	18.0	17.0	17.0	16.0	10.5	10.0	10.5	10.5	14.5	13.0	16.0	15.0
16	18.0	17.0	17.0	16.0	10.5	10.0	11.0	10.5	15.5	14.5	17.0	16.0
17	18.5	17.0	17.5	16.0	10.0	9.5	11.0	10.0	15.5	14.5	17.5	16.5
18	19.0	18.0	16.5	15.0	9.5	9.0	10.5	10.0	14.5	13.0	18.0	17.0
19	20.0	18.5	16.0	14.5	10.0	9.0	10.5	9.5	13.0	12.5	18.5	17.5
20	19.5	19.0	17.5	15.0	10.0	9.5	11.0	10.0	12.5	12.0	18.5	17.5
21	19.0	18.5	17.5	16.0	10.5	9.5	10.5	10.0	12.0	12.0	17.5	17.0
22	19.0	18.0	16.0	14.5	11.5	10.5	10.5	10.0	12.0	12.0	17.5	16.5
23	18.0	17.5	14.5	14.5	12.0	11.5	10.0	9.5	12.0	11.5	16.5	14.5
24	18.5	17.5	15.0	13.0	13.0	12.0	10.5	10.0	11.5	10.5	14.5	13.5
25	18.0	17.0	15.0	14.0	13.5	12.5	10.5	10.0	10.5	9.5	13.5	12.5
26	17.5	16.5	15.0	I13.5	13.5	12.0	11.0	10.0	10.0	9.5	13.0	12.5
27	18.0	17.5	15.5	14.5	13.0	11.5	12.0	10.0	11.5	10.0	14.0	13.0
28	19.0	17.5	16.0	15.0	13.5	12.5	12.5	10.5	12.0	11.5	16.0	14.0
29	18.5	18.0	15.0	14.0	13.5	12.0	12.5	11.0	---	—	18.0	15.5
30	18.5	18.0	14.5	13.5	12.0	11.5	12.5	12.0	---	—	18.5	17.5
31	18.5	17.0	—	—	12.0	12.0	12.5	12.0	---	—	18.5	17.5
MONTH	23.5	16.5	17.5	13.0	14.0	9.0	13.0	9.5	15.5	9.5	18.5	11.0

02197370 SAVANNAH RIVER BELOW STEEL CREEK, NEAR MILLETT, S.C.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.5	16.5	22.5	21.5	26.5	24.5	24.5	23.0	28.0	27.0	22.5	21.0
2	17.0	16.0	22.0	21.0	26.5	25.0	24.0	22.5	27.5	26.5	22.5	21.0
3	18.0	16.0	21.5	20.5	26.0	24.5	23.5	22.0	28.0	26.5	22.5	21.5
4	18.0	16.5	20.5	20.0	25.5	24.0	23.5	22.0	27.0	26.0	23.5	22.0
5	17.5	17.0	21.0	19.5	26.0	24.5	23.0	21.5	27.5	25.0	23.0	22.5
6	18.0	16.5	21.0	19.5	25.0	23.5	24.0	21.0	28.0	26.5	23.0	21.5
7	17.0	16.5	20.5	19.0	24.5	23.5	24.5	22.0	28.0	27.0	21.0	20.0
8	16.5	15.5	19.5	18.5	24.0	23.5	25.5	24.0	27.0	25.5	22.5	20.0
9	15.5	15.0	19.0	18.5	24.0	23.0	26.0	24.5	25.5	25.0	22.5	20.0
10	15.0	13.5	19.5	18.5	24.5	23.0	27.0	25.0	25.0	24.5	22.0	20.5
11	13.5	13.0	19.0	18.5	24.5	23.0	27.5	26.5	24.5	23.5	23.0	21.5
12	13.5	12.5	18.5	18.0	25.0	23.0	27.5	26.5	23.5	23.0	23.5	22.0
13	13.5	12.5	18.5	17.5	25.5	23.5	27.5	26.5	24.0	23.0	24.0	23.5
14	14.5	13.0	20.0	18.0	26.5	24.5	27.0	26.0	24.0	23.5	23.0	22.0
15	15.5	14.5	21.0	19.5	27.0	25.0	26.0	25.0	25.0	23.5	23.5	21.5
16	16.0	15.0	21.5	19.5	25.5	24.5	26.0	24.5	25.5	24.0	23.0	22.5
17	16.0	15.5	22.0	20.0	24.5	23.5	26.5	25.5	25.0	24.5	24.0	23.0
18	16.5	15.5	22.5	21.0	25.5	23.5	26.0	25.0	25.0	24.0	24.5	23.0
19	18.5	16.5	22.0	21.5	25.0	24.0	25.0	24.5	25.0	24.0	23.5	22.5
20	18.5	17.5	21.5	20.5	25.0	23.5	25.5	24.5	25.5	24.0	22.5	22.0
21	18.5	17.0	22.5	20.5	25.5	22.0	25.0	24.0	26.5	24.5	22.5	21.5
22	19.5	18.0	22.5	21.5	25.0	23.5	25.0	23.5	27.0	25.5	21.5	21.0
23	20.0	18.5	23.0	21.5	25.5	23.5	25.0	23.5	28.0	26.0	21.5	20.5
24	20.0	19.0	24.0	22.0	25.0	22.0	25.0	24.0	28.0	26.0	22.0	21.0
25	21.5	19.5	24.0	22.5	24.5	23.5	26.5	25.0	26.0	24.0	21.0	20.0
26	22.0	20.5	24.5	23.0	26.0	24.0	26.0	25.0	24.0	23.5	20.5	20.0
27	23.0	21.5	25.0	23.5	26.0	25.0	26.0	25.0	25.0	23.5	21.0	20.5
28	23.0	22.0	25.0	23.0	27.5	25.5	26.0	25.0	26.0	24.0	20.5	19.5
29	23.5	22.0	25.0	23.0	27.0	26.0	27.0	25.0	25.5	25.0	21.0	19.5
30	23.0	22.0	25.5	23.5	26.0	24.5	27.0	26.0	25.5	24.0	21.5	21.0
31	—	—	26.0	24.0	—	—	28.0	26.5	24.0	22.0	—	—
MONTH	23.5	12.5	26.0	17.5	27.5	22.0	28.0	21.0	28.0	22.0	24.5	19.5
YEAR	28.0	9.0										

02197500 SAVANNAH RIVER AT BURTONS FERRY BRIDGE, NEAR MILLHAVEN, GA.

LOCATION.--Lat 32°56'20", long 81°30'10", Screven County, Ga.-Allendale County, S.C., Hydrologic Unit 03060106, on right bank 500 ft downstream of bridge on U.S. Highway 301, 2.0 mi downstream from Rocky Creek, 9.0 mi east of Millhaven, and at mile 118.7 (revised).

DRAINAGE AREA.--8,650 mi^2, approximately.

PERIOD OF RECORD.--October 1939 to September 1970, October 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 54.42 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: June 30, Sept. 29, 30. Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Thurmond Lake. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, 02189004, and 02194500.)

AVERAGE DISCHARGE.--38 years, 10,143 ft^3/s, 15.92 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 141,000 ft^3/s, Aug. 18, 1940; gage height, 27.0 ft; minimum daily, 2,120 ft^3/s, Sept. 9, 1951.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in October 1929 reached a stage of 30.8 ft, from information by Corps of Engineers, discharge, 220,000 ft^3/s from rating curve extended above 141,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,800 ft^3/s, Mar. 26, gage height 14.73 ft; minimum daily discharge, 4,100 ft^3/s, June 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4670	4620	5020	5190	4760	5520	5860	4630	4100	4830	5310	10400
2	4620	4880	5060	5500	4720	6390	5950	4910	4260	4830	6700	9900
3	4510	5160	5110	5580	4690	8690	5520	5310	4230	4680	7350	8820
4	4820	5060	5100	5540	4660	8410	5030	5720	4180	4630	6760	6590
5	7940	5110	5000	5600	4710	7360	4860	5800	4140	5030	6350	5170
6	11600	5120	4920	6210	4720	7180	4800	5560	4180	7230	5390	7060
7	9680	5120	4860	6380	4740	7410	4740	5210	4270	9960	4820	9330
8	6840	4970	4850	5420	4810	8250	4860	4920	4300	8010	4610	9920
9	5950	4840	4820	5040	4870	9110	5640	4760	4460	6120	4590	10400
10	5590	4840	4810	4990	5260	7640	6560	4890	5010	5290	4920	10100
11	4920	4840	4940	5050	5430	6200	9480	5420	5400	5070	5150	7000
12	4730	4870	4970	5940	4830	5480	12000	7040	5210	5230	5010	4990
13	4560	4900	4930	6490	4580	5110	11800	7330	4900	5420	4590	7370
14	4490	4860	4940	6020	4310	5020	9160	5640	4530	5960	4430	10000
15	4860	4780	4960	5760	4580	5060	6850	4950	4340	6700	4430	10100
16	4740	4730	5080	6140	4580	5260	6690	4940	4300	6530	4640	8040
17	4570	4850	5220	5280	4540	5090	9550	5120	4620	6050	5080	7170
18	4490	5150	5120	5020	4740	5170	12800	4990	4870	6150	5460	5570
19	4490	5210	4900	5250	5210	5250	12100	4980	4740	7750	5640	4140
20	4640	5150	4280	5790	4800	4950	7940	5170	4870	8100	5350	4400
21	4620	5090	4280	5410	4780	4880	6300	4960	5380	8120	4720	6460
22	4720	4990	4340	5090	5410	4950	6200	4680	7100	8000	4470	9440
23	4810	4840	4840	4770	9770	5230	5640	4600	9960	9010	4530	13400
24	4770	4910	4810	4760	13000	7590	5160	4570	10300	9130	5930	14800
25	4650	5000	4700	4750	12300	11400	5080	4590	8250	7930	8110	14100
26	4570	5090	4690	4880	8590	14400	5290	4580	6610	8070	7680	13600
27	4920	5410	4700	5590	6770	14200	5180	4400	5530	8250	6780	10900
28	5120	5210	4280	5670	5810	9970	4990	4320	5060	7560	5740	9420
29	5120	4930	4730	5240	—	7150	4900	4300	4960	6810	4970	9180
30	4770	4900	4730	4830	—	6210	4720	4180	4820	6190	7050	8240
31	4660	—	5010	4820	—	5830	—	4160	—	5610	9960	—
TOTAL	165440	149430	150000	168000	161970	220360	205650	156630	158880	208250	176520	266010
MEAN	5337	4981	4839	5419	5785	7108	6855	5053	5296	6718	5694	8867
MAX	11600	5410	5220	6490	13000	14400	12800	7330	10300	9960	9960	14800
MIN	4490	4620	4280	4750	4310	4880	4720	4160	4100	4630	4430	4140

CAL YR 1988	TOTAL	1964160	MEAN	5367	MAX	11600	MIN	4000	MEAN†	4746	CFSM† .55	IN.† 7.45
WTR YR 1989	TOTAL	2187140	MEAN	5992	MAX	14800	MIN	4100	MEAN†	7861	CFSM† .91	IN. †12.34

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, RICHARD B. RUSSELL RESERVOIR, AND THURMOND LAKE.

02197500 SAVANNAH RIVER AT BURTONS FERRY BRIDGE, NEAR MILLHAVEN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1957, 1958, 1968-72, 1974-79, September 1988 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
DEC										
07...	1115	4850	122	119	7.00	7.30	11.0	24.0	9.2	83
MAR										
08...	1045	8040	109	109	6.94	7.20	11.0	2.0	8.9	80
JUN										
13...	1030	4920	116	123	7.05	7.30	25.0	29.0	6.4	77
SEP										
25...	0945	14000	76	74	6.66	6.50	20.0	16.5	5.7	63

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC									
07...	40	5.0	1.5	<30	23	0.410	0.180	0.140	5.0
MAR									
08...	60	21	1.7	170	18	0.510	0.180	0.180	5.6
JUN									
13...	20	9.0	0.4	--	23	0.280	0.050	0.150	6.1
SEP									
25...	25	24	1.6	1400	16	0.210	0.100	0.190	--

02197520 BRIER CREEK NEAR THOMSON, GA.

LOCATION.–Lat 33°22'06", long 82°28'06", McDuffie County, Hydrologic Unit 03060108, on downstream side of bridge on State Highway 17, 0.2 mi upstream from Sweetwater Creek, and 6.9 mi south of Thomson.

DRAINAGE AREA.–55 mi^2, approximately.

PERIOD OF RECORD.–July 1967 to current year.

GAGE.–Water-stage recorder. Elevation of gage is 300 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.–No estimated daily discharges. Records good, except those for the period March 25 to May 15, which are fair.

AVERAGE DISCHARGE.–22 years, 45.1 ft^3/s, 11.14 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 4,810 ft^3/s, Mar. 3, 1971, gage height, 18.09 ft, from floodmark; minimum daily discharge, 0.14 ft^3/s, July 21, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.–A discharge of 0.007 ft^3/s was measured on Oct. 14, 1954.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 30	1600	*1,380	*11.32	No other peak greater than base discharge.			

Minimum daily discharge, 1.6 ft^3/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	33	11	45	14	90	46	34	3.5	4.5	12	57
2	2.4	17	9.5	28	16	82	41	136	3.3	4.2	14	22
3	80	10	9.1	27	14	224	39	55	2.8	4.4	49	13
4	172	7.3	8.4	60	12	127	38	37	3.4	11	22	9.4
5	47	27	7.6	30	14	103	49	40	3.6	9.6	13	8.2
6	25	31	7.3	23	27	145	46	80	11	9.0	9.6	8.6
7	17	16	7.2	20	30	124	44	43	45	7.1	7.6	11
8	13	11	7.2	18	21	78	50	30	17	5.1	5.0	8.5
9	11	9.5	7.4	32	16	64	247	51	32	3.8	4.1	7.4
10	7.5	10	7.8	59	14	55	460	198	21	3.5	3.9	6.1
11	5.7	8.7	7.7	43	13	50	431	97	10	3.1	3.4	5.1
12	4.9	7.9	7.4	32	13	46	184	54	6.9	4.3	3.1	8.5
13	4.0	7.4	7.2	34	12	41	127	40	5.3	4.6	2.7	42
14	3.7	6.9	7.0	36	12	38	101	32	4.4	3.1	3.9	16
15	3.6	6.9	6.9	32	12	36	246	26	4.1	3.6	103	12
16	3.5	6.6	9.2	35	12	55	232	23	11	7.9	60	20
17	3.4	9.3	12	28	12	51	123	19	30	7.6	23	10
18	3.2	10	9.5	25	11	41	93	17	18	5.0	24	7.2
19	4.3	8.2	9.9	22	13	36	79	15	19	4.7	15	6.0
20	4.1	7.5	7.9	21	17	31	101	15	37	14	11	5.7
21	4.2	7.4	7.5	19	259	50	93	16	63	42	8.3	23
22	6.0	7.2	7.5	17	329	67	70	12	34	56	6.7	205
23	5.0	7.9	8.3	16	117	316	56	12	22	22	5.4	77
24	4.1	11	8.4	15	84	491	47	11	31	21	4.3	33
25	3.6	9.6	8.8	14	72	166	43	8.8	16	13	3.7	25
26	3.3	8.9	8.1	14	59	111	36	7.7	10	10	3.4	89
27	3.7	7.9	7.4	14	52	85	31	6.5	7.9	7.3	30	68
28	4.1	20	7.7	15	91	74	28	5.4	6.4	10	25	35
29	4.0	18	8.6	13	---	65	34	4.7	5.3	6.7	13	33
30	4.0	12	7.9	14	---	61	25	4.2	4.9	5.1	8.1	805
31	7.3	---	9.9	16	---	56	---	3.7	---	5.6	25	---
TOTAL	466.2	361.1	257.3	817	1368	3059	3240	1134.0	488.8	318.8	522.2	1676.7
MEAN	15.0	12.0	8.30	26.4	48.9	98.7	108	36.6	16.3	10.3	16.8	55.9
MAX	172	33	12	60	329	491	460	198	63	56	103	805
MIN	1.6	6.6	6.9	13	11	31	25	3.7	2.8	3.1	2.7	5.1
CFSM	.27	.22	.15	.48	.89	1.80	1.96	.67	30	.19	.31	1.02
IN.	.32	.24	.17	.55	.93	2.07	2.19	.77	.33	.22	.35	1.13

CAL YR 1988 TOTAL 7284.92 MEAN 19.9 MAX 927 MIN .58 CFSM .36 IN 4.93

WTR YR 1989 TOTAL 13709.10 MEAN 37.6 MAX 805 MIN 1.5 CFSM .68 IN 9.27

02197600 BRUSHY CREEK NEAR WRENS, GA.

LOCATION.–Lat 33°10'37", long 82°18'20", Jefferson County, Hydrologic Unit 03060108, at right bank on downstream side of bridge on State Highway 80, 5 mi southeast of Wrens, and 5.5 mi upstream from Little Brushy Creek.

DRAINAGE AREA.–28.0 mi^2.

PERIOD OF RECORD.–May 1958 to current year.

GAGE.–Water-stage recorder. Datum of gage is 282.56 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.–No estimated daily discharges. Records good. Discharge during growing season affected by undetermined amount of irrigation withdrawal. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.–31 years, 25.1 ft^3/s, 12.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum gage height, 8.03 ft, Mar. 3, 1971 (discharge not determined); minimum daily discharge, 3.6 ft^3/s, July 22, 1988.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 10	2000	*154	*4.43

Minimum daily discharge, 5.9 ft^3/s, Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	40	8.6	51	11	20	18	25	6.3	8.0	27	10
2	11	17	8.3	21	11	21	18	37	6.1	7.6	16	9.5
3	17	11	8.3	24	11	53	18	20	6.0	11	20	9.0
4	21	9.1	8.3	32	10	48	18	15	6.1	17	15	8.7
5	14	17	8.2	18	11	45	19	13	6.1	20	11	8.4
6	10	17	8.1	15	14	36	19	13	6.3	14	9.9	9.5
7	7.9	11	8.3	14	13	27	20	11	6.7	13	9.1	9.6
8	7.1	9.3	8.5	13	13	23	27	11	6.5	9.8	8.4	9.0
9	6.6	8.7	9.5	18	11	21	64	12	22	12	8.6	8.5
10	6.3	9.0	10	24	10	19	115	39	12	11	8.3	8.1
11	6.6	8.7	10	18	10	18	99	23	8.6	10	7.7	7.7
12	7.6	8.5	9.8	15	11	17	47	16	7.4	9.1	7.6	7.5
13	8.3	8.4	9.6	15	11	16	34	14	6.9	8.8	7.7	7.3
14	8.3	8.4	9.7	14	11	16	27	13	6.5	8.4	8.8	7.2
15	6.2	8.4	10	13	12	17	38	12	6.2	9.0	13	7.1
16	6.3	8.3	11	12	13	18	36	11	9.9	9.9	10	7.7
17	6.0	14	11	12	13	19	24	10	15	8.7	9.2	7.1
18	6.2	11	9.2	11	14	16	20	9.9	10	8.1	9.7	7.1
19	5.9	9.7	8.9	11	15	15	18	9.3	8.6	8.6	9.0	6.9
20	6.1	9.2	8.4	11	15	15	20	9.5	10	21	8.5	7.1
21	7.6	8.9	8.7	11	47	19	19	9.2	41	22	7.9	9.8
22	8.4	8.9	8.8	10	68	27	16	8.5	40	29	7.4	49
23	7.7	10	8.9	11	26	82	15	8.2	19	15	7.1	23
24	7.3	10	9.0	11	20	101	14	8.0	16	14	7.8	13
25	7.2	9.2	9.7	11	16	39	13	7.6	11	12	6.9	12
26	6.8	9.1	8.9	11	14	27	12	7.5	9.6	11	12	15
27	7.3	9.1	8.7	11	14	23	11	7.2	9.3	23	52	17
28	7.3	9.8	9.3	11	18	20	10	6.9	8.4	23	21	13
29	7.7	9.2	9.3	10	—	19	10	6.5	8.3	13	13	11
30	7.5	8.9	9.1	11	—	18	10	6.3	8.7	12	11	13
31	19	—	18	12	—	19	—	6.6	—	14	10	—
TOTAL	273.2	336.8	292.1	482	463	874	829	406.2	344.5	413.0	380.6	338.8
MEAN	8.81	11.2	9.42	15.5	16.5	28.2	27.6	13.1	11.5	13.3	12.3	11.3
MAX	21	40	18	51	68	101	115	39	41	29	52	49
MIN	5.9	8.3	8.1	10	10	15	10	6.3	6.0	7.6	6.9	6.9
CFSM	.32	.40	.34	.55	.59	1.01	.99	.47	.41	.48	.44	.40
IN.	.36	.45	.39	.64	.62	1.16	1.10	.54	.46	.55	.51	.45

CAL YR 1988	TOTAL	4177.7	MEAN	11.4	MAX	73	MIN	3.6	CFSM	.41	IN	5.55
WTR YR 1989	TOTAL	5433.2	MEAN	14.9	MAX	115	MIN	5.9	CFSM	.53	IN	7.22

02197830 BRIER CREEK NEAR WAYNESBORO, GA.

LOCATION.--Lat 33°07'05", long 81°57'50", Burke County, Hydrologic Unit 03060108, near left bank on downstream end of pier of bridge on State Highway 56, 3.8 mi northeast of Waynesboro.

DRAINAGE AREA.--473 mi^2.

PERIOD OF RECORD.--July 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 173.78 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--20 years, 445 ft^3/s, 12.78 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft^3/s, Mar. 15, 1971, gage height, 12.28 ft; minimum daily discharge, 50 ft^3/s, July 15, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 14	0100	*1,870	*7.80

Minimum daily discharge, 84 ft^3/s, June 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	160	195	250	209	548	426	277	94	174	288	242
2	107	194	195	275	210	497	386	569	91	155	240	191
3	116	248	203	352	207	591	362	463	89	156	218	165
4	244	367	203	481	206	687	338	435	85	220	210	161
5	250	491	194	457	203	868	308	438	84	334	198	174
6	227	491	186	437	212	973	282	469	101	348	189	182
7	243	382	181	423	230	1090	271	436	107	284	191	172
8	297	305	179	385	232	903	276	328	108	246	184	165
9	329	283	179	370	233	705	386	270	188	217	159	163
10	243	277	179	340	237	609	556	299	235	191	144	161
11	179	272	182	312	239	578	809	321	264	165	138	157
12	151	241	191	324	226	511	1000	340	260	148	134	150
13	137	212	192	343	206	436	1610	392	203	157	128	141
14	125	192	193	358	191	391	1730	449	165	154	126	137
15	115	179	191	353	184	364	1280	495	133	151	139	142
16	110	174	199	344	183	350	961	388	115	173	170	150
17	108	190	205	315	181	336	775	276	130	189	185	171
18	108	204	201	298	178	335	695	226	162	179	338	187
19	106	203	207	283	180	330	751	198	184	186	310	172
20	104	209	209	277	180	314	816	184	243	259	307	170
21	109	210	206	270	230	324	632	171	279	347	306	188
22	116	205	205	254	344	319	514	160	298	377	234	331
23	116	213	200	244	393	403	485	155	417	349	192	344
24	121	219	196	232	507	565	506	152	459	357	163	365
25	125	201	192	223	1010	658	488	141	509	373	149	445
26	125	199	187	214	1390	886	406	133	442	414	138	549
27	124	201	185	210	910	1530	334	127	315	443	162	645
28	122	204	177	207	658	1270	285	119	241	645	168	523
29	122	198	182	201	---	836	256	113	198	455	210	396
30	123	197	179	202	---	610	241	106	187	316	269	354
31	126	---	188	211	---	500	---	98	---	383	268	---
TOTAL	4734	7321	5961	9455	9569	19317	18165	8728	6386	8545	6255	7493
MEAN	153	244	192	305	342	623	606	282	213	276	202	250
MAX	329	491	209	481	1390	1530	1730	569	509	645	338	645
MIN	104	160	177	201	178	314	241	98	84	148	126	137
CFSM	.32	.52	.41	.65	.72	1.32	1.28	.60	.45	.58	.43	.53
IN.	.37	.58	.47	.74	.75	1.52	1.43	.69	.50	67	.49	.59

CAL YR 1988	TOTAL	89422	MEAN	244	MAX	1420	MIN	55	CFSM	.52	IN 7.03
WTR YR 1989	TOTAL	111929	MEAN	307	MAX	1730	MIN	84	CFSM	.65	IN 8.80

02198000 BRIER CREEK AT MILLHAVEN, GA.

LOCATION.–Lat 32 56'00", long 81 39'05", Screven County, Hydrologic Unit 03060108, near right bank on downstream side of pier of highway bridge at Millhaven, 8.5 mi upstream from Beaverdam Creek.

DRAINAGE AREA.–646 mi^2.

PERIOD OF RECORD.–October 1936 to current year. Monthly discharges only for October 1936 to April 1937, published in WSP 1303.

REVISED RECORDS.–WSP 1383: Drainage area. WSP 1503: 1956.

GAGE.–Water-stage recorder. Datum of gage is 95.88 ft above National Geodetic Vertical Datum of 1929. Prior to June 7, 1950, nonrecording gage at site 200 ft downstream at same datum. June 7, 1950, to Apr. 30, 1951, nonrecording gage at present site and datum.

REMARKS.–No estimated daily discharges. Records good. Records of chemical analyses for the 1970-79 water years are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.–53 years, 636 ft^3/s, 13.37 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 25,400 ft^3/s, Aug. 16, 1940, gage height, 17.4 ft, from graph based on gage readings; minimum daily, 64 ft^3/s, Sept. 5-11, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known since at least 1797, 25.1 ft in September or October 1929, from information by Georgia Department of Transportation; discharge, 64,000 ft^3/s, by slope-conveyance study.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 16	1400	*2,140	*8.34	No other peak greater than base discharge.			

Minimum daily discharge, 98 ft^3/s, June 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	151	219	286	248	1250	847	316	114	256	717	264
2	154	157	212	329	239	1040	645	365	106	216	572	283
3	157	167	206	317	234	1030	536	361	101	204	509	325
4	204	181	204	358	229	984	454	439	102	201	387	296
5	211	205	204	380	224	867	404	579	98	219	309	227
6	234	246	206	427	222	841	371	527	100	249	267	217
7	260	300	205	498	232	879	341	496	111	293	243	223
8	252	383	201	508	240	1000	325	486	125	346	229	225
9	241	464	197	480	241	1090	442	496	168	341	221	213
10	254	431	196	460	239	1100	657	495	262	290	220	201
11	287	343	199	431	237	968	906	410	289	261	204	193
12	300	292	204	406	236	807	954	347	277	226	187	189
13	242	274	203	378	241	702	984	336	245	254	180	182
14	193	269	201	350	239	652	1040	342	240	253	180	178
15	171	253	202	346	227	585	1440	403	209	222	191	176
16	157	229	211	359	209	506	2080	408	180	213	242	173
17	150	213	227	367	202	451	1730	476	169	224	243	174
18	142	202	227	368	197	416	1240	503	153	242	244	174
19	139	199	225	356	196	388	1010	384	159	243	240	181
20	139	207	219	335	196	369	867	277	229	272	276	190
21	142	213	214	318	241	366	821	224	245	296	340	207
22	149	212	215	302	403	358	898	204	483	383	337	429
23	150	219	216	292	444	422	851	188	518	438	332	461
24	149	230	216	280	454	600	681	173	394	507	304	463
25	146	230	214	266	452	659	567	164	425	481	248	467
26	145	239	209	252	460	696	522	157	508	424	215	433
27	148	240	204	243	548	716	521	150	506	404	204	423
28	152	229	200	234	978	796	489	143	508	516	204	480
29	152	233	198	229	---	1140	406	136	444	580	223	564
30	150	224	196	234	---	1460	335	128	332	991	232	634
31	149	---	200	260	---	1130	---	124	---	972	232	---
TOTAL	5682	7435	6450	10649	8508	24268	23364	10237	7800	11017	8732	8845
MEAN	183	248	208	344	304	783	779	330	260	355	282	295
MAX	300	464	227	508	978	1460	2080	579	518	991	717	634
MIN	139	151	196	229	196	358	325	124	98	201	180	173
CFSM	.28	.38	.32	.53	.47	1.21	1.21	.51	.40	.55	.44	.46
IN.	.33	.43	.37	.61	.49	1.40	1.35	.59	.45	.63	.50	.51

CAL YR 1988	TOTAL	110300	MEAN	301	MAX	1410	MIN	72	CFSM	.47	IN	6.35
WTR YR 1989	TOTAL	132987	MEAN	364	MAX	2080	MIN	98	CFSM	.56	IN	7.66

02198100 BEAVERDAM CREEK NEAR SARDIS, GA.

LOCATION.–Lat 32°56'15", long 81°48'56", Burke-Jenkins County line, Hydrologic Unit 03060108, at downstream side of bridge on State Highway 23, and 4.2 mi southwest of Sardis.

DRAINAGE AREA.–30.8 mi².

PERIOD OF RECORD.–June 1986 to current year.

GAGE.–Water-stage recorder. Datum of gage is 186.48 ft above National Geodetic Vertical Datum of 1929.

REMARKS.–No estimated daily discharges. Records good.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 600 ft³/s, Mar. 1, 1987, gage height, 6.64 ft; minimum daily discharge, 2.6 ft³/s, Aug. 20, 1988.

EXTREMES FOR CURRENT YEAR.– Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 11	1130	*251	*5.33

Minimum daily discharge, 3.3 ft³/s, June 2, 3, and 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	7.2	6.3	30	11	13	12	11	3.4	4.3	37	9.4
2	4.7	6.9	6.1	16	8.6	26	12	24	3.3	4.2	28	8.2
3	6.7	6.7	6.1	16	7.6	103	15	15	3.3	4.6	17	7.8
4	8.8	6.8	6.3	23	7.1	66	12	10	3.4	7.8	12	6.7
5	6.5	9.7	6.3	14	6.8	44	9.7	8.5	3.3	6.7	9.2	7.0
6	5.4	8.6	6.4	11	7.0	40	8.6	8.7	3.7	6.0	7.6	11
7	5.0	6.9	6.5	10	8.7	32	8.3	7.9	3.6	5.7	6.6	8.9
8	4.7	6.2	6.2	9.1	8.1	26	8.9	6.9	3.7	4.9	6.1	6.9
9	4.6	5.9	6.5	8.4	7.0	24	60	6.6	16	4.3	5.9	6.0
10	4.5	5.7	6.6	8.6	6.2	23	127	17	10	4.1	6.6	5.5
11	4.5	5.6	6.8	8.8	5.9	21	236	14	5.5	3.9	6.1	5.1
12	4.4	5.3	7.0	8.4	5.8	22	167	9.1	4.3	4.1	5.7	4.9
13	4.3	5.1	6.9	8.3	5.6	19	81	7.4	3.8	4.7	5.3	4.7
14	4.3	4.9	6.8	8.0	5.4	18	49	6.6	3.7	4.5	8.0	4.6
15	4.3	4.6	6.6	7.8	5.2	17	71	9.7	3.5	4.7	13	4.6
16	4.3	4.3	7.9	8.0	5.2	16	113	7.9	3.8	4.8	18	4.5
17	4.3	4.9	8.0	7.8	5.2	16	71	6.2	4.1	4.4	9.8	4.4
18	4.3	5.0	7.1	7.1	5.1	14	48	5.5	3.8	4.4	9.9	4.3
19	4.4	4.7	6.7	6.9	5.3	13	32	5.1	4.1	4.5	8.9	4.3
20	4.5	4.9	6.6	7.2	6.3	11	31	5.0	6.1	8.6	7.3	4.4
21	5.4	5.7	6.4	7.3	24	12	33	4.7	23	9.8	7.6	8.3
22	5.6	5.3	6.2	7.1	40	14	26	4.6	28	7.3	7.9	85
23	5.5	5.4	6.0	6.9	20	37	21	4.5	15	7.5	6.4	42
24	5.4	6.1	5.7	6.9	14	83	17	4.3	9.4	11	5.7	18
25	5.3	5.6	5.4	6.8	12	51	14	4.2	7.1	6.8	5.8	15
26	5.4	5.7	5.3	6.6	11	40	11	4.1	6.0	5.3	5.6	15
27	5.5	6.0	5.0	6.5	9.9	29	9.4	4.0	5.3	11	5.8	13
28	5.7	7.8	4.9	6.7	11	22	8.2	3.7	5.0	18	6.2	10
29	6.1	7.1	5.2	6.5	---	19	7.7	3.7	4.6	8.6	5.7	9.1
30	6.2	6.4	5.0	11	---	16	7.4	3.6	4.5	15	5.4	8.6
31	6.3	---	6.9	17	---	14	---	3.5	---	82	5.5	---
TOTAL	161.7	181.0	195.7	313.7	275.0	901	1327.2	237.0	204.3	283.5	295.6	347.2
MEAN	5.22	6.03	6.31	10.1	9.82	29.1	44.2	7.65	6.81	9.15	9.54	11.6
MAX	8.8	9.7	8.0	30	40	103	236	24	28	82	37	85
MIN	4.3	4.3	4.9	6.5	5.1	11	7.4	3.5	3.3	3.9	5.3	4.3
CFSM	.17	.20	.21	.33	.32	.95	1.44	.25	.22	.30	.31	.38
IN.	.20	.22	.24	.38	.33	1.09	1.60	.29	.25	.34	.36	.42

CAL YR 1988	TOTAL	3648.8	MEAN	9.97	MAX	165	MIN	2.6	CFSM	.32	IN	4.41
WTR YR 1989	TOTAL	4722.9	MEAN	12.9	MAX	236	MIN	3.3	CFSM	.42	IN	5.70

02198500 SAVANNAH RIVER NEAR CLYO, GA.
(National Stream-Quality Accounting Network station)
(Radiochemical Program station)
(Tritium Network)

LOCATION.–Lat 32°31'30", long 81°15'45", Effingham County, Ga.-Jasper County, S.C., Hydrologic Unit 03060109, on downstream side of center pier of drawspan of bridge on Seaboard Coast Line Railroad, 3.0 mi north of Clyo, and at mile 60.9.

DRAINAGE AREA.–9,850 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–October 1929 to September 1933, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at same site 1921-43 by National Weather Service (unpublished prior to 1933).

REVISED RECORDS.–WSP 1112: 1940.

GAGE.–Water-stage recorder and data collection platform. Datum of gage is 13.39 ft, National Geodetic Vertical Datum of 1929. Prior to Jan. 31, 1933, nonrecording gage at same site and at datum 4.00 ft higher. Jan. 31, 1933 to June 12, 1945, nonrecording gage at same site and datum.

REMARKS.–Estimated daily discharges: Sept. 16-18. Records good, except those for the period of estimated daily discharge, which are fair. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Thurmond Lake. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, 02189004, and 02194500).

AVERAGE DISCHARGE.–56 years, 11,688 ft^3/s, 16.12 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 270,000 ft^3/s, Oct. 6, 1929, gage height, 29.7 ft, present datum (from information by U.S. Army Corps of Engineers), from rating curve extended above 120,000 ft^3/s; minimum daily discharge, 1,950 ft^3/s, Sept. 27, 1931.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, 14,200 ft^3/s, Sept. 26, 27, gage height, 10.54 ft; minimum daily discharge, 4,960 ft^3/s, June 6.

02198500 SAVANNAH RIVER NEAR CLYO, GA.–Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5760	5240	5510	5640	5740	7870	8450	6060	5010	5740	6890	9300
2	5650	5200	5560	5840	5710	7260	8270	5990	5000	5680	6720	10400
3	5540	5320	5600	6150	5690	8220	8100	6040	5050	5620	7590	10600
4	5480	5540	5630	6340	5660	10500	7530	6300	5040	5480	8390	10100
5	5620	5590	5640	6390	5640	11300	6860	6670	4990	5420	8020	8350
6	7500	5610	5570	6440	5670	10800	6440	6910	4960	5590	7470	6600
7	10200	5610	5510	6890	5680	10100	6230	6760	4970	7010	6620	7270
8	10700	5640	5460	7210	5690	10000	6090	6510	5010	9260	5850	9270
9	8830	5580	5450	6630	5710	10400	6190	6230	5090	9150	5560	10200
10	7100	5510	5430	6120	5760	11200	6930	6100	5150	7360	5440	10700
11	6410	5490	5430	6020	6000	10700	8370	6140	5450	6230	5540	10800
12	5850	5530	5490	6040	6220	9240	10700	6510	5800	5810	5690	9080
13	5560	5560	5530	6620	6070	8160	12400	7720	5820	5860	5670	6770
14	5410	5590	5510	7260	5770	7420	13300	8380	5640	5930	5440	7490
15	5330	5560	5500	7130	5640	7030	13400	7220	5410	6310	5270	10000
16	5450	5470	5540	6820	5610	6870	12000	6240	5260	6960	5250	10000
17	5440	5420	5610	6990	5590	6920	10400	5980	5200	7130	5330	8100
18	5290	5450	5720	6460	5570	6770	11300	6050	5320	6700	5570	7320
19	5190	5620	5720	6050	5650	6670	12700	6020	5470	6640	5870	5940
20	5140	5710	5580	6120	5950	6690	13500	5960	5480	7690	6050	5990
21	5220	5670	5480	6540	5860	6440	13100	6110	5520	8570	5970	5950
22	5240	5620	5440	6440	5860	6270	10800	6040	5840	8940	5560	7890
23	5280	5590	5470	6120	6400	6320	9020	5740	7040	9080	5320	10200
24	5340	5500	5490	5840	9190	6640	8010	5560	9280	9710	5350	12200
25	5350	5490	5470	5730	11600	8410	7300	5460	10500	10200	6200	13300
26	5250	5560	5420	5700	12400	11100	6990	5430	9860	9730	8010	14000
27	5180	5640	5410	5760	11900	12500	6920	5390	8240	9370	8380	13600
28	5370	5810	5400	6200	10000	13300	6710	5320	6790	9410	7650	11100
29	5540	5790	5420	6460	---	13500	6420	5270	6100	8880	6680	9660
30	5570	5590	5420	6230	---	11900	6230	5180	5890	8090	5870	9420
31	5400	---	5450	5870	---	9510	---	5070	---	7590	6880	---
TOTAL	186190	166500	170860	196050	188230	280010	270660	190360	180180	231140	196100	281600
MEAN	6006	5550	5512	6324	6722	9033	9022	6141	6006	7456	6326	9387
MAX	10700	5810	5720	7260	12400	13500	13500	8380	10500	10200	8390	14000
MIN	5140	5200	5400	5640	5570	6270	6090	5070	4960	5420	5250	5940

CAL YR 1988	TOTAL	2208730	MEAN	6035	MAX	10700	MIN	4400	MEAN†	5414	CFSM†	.55	IN.† 7.46
WTR YR 1989	TOTAL	2537880	MEAN	6953	MAX	14000	MIN	4960	MEAN†	8822	CFSM†	.90	IN.†12.16

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, RICHARD B. RUSSELL RESERVOIR, AND THURMOND LAKE.

02198500 SAVANNAH RIVER NEAR CLYO, GA.–Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.–May 1938 to April 1939, October 1964 to current year.
PERIOD OF DAILY RECORD.–
SPECIFIC CONDUCTANCE: January 1974 to July 1977.
WATER TEMPERATURE: May 1938 to April 1939, January 1974 to July 1977.
REMARKS.–Laboratory analyses with the analyzing agency codes 80020, 84213, and 85113 are performed by the U.S. Geological Survey. Laboratory analyses with the analyzing agency code 81341 are performed by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, Dissolved Oxygen, and Total Alkalinity are by the U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.–
SPECIFIC CONDUCTANCE: Maximum daily, 110 microsiemens June 14, 1977; minimum daily, 42 microsiemens July 5, 1974.
WATER TEMPERATURE: Maximum daily, 27°C Aug. 23, 1975, July 9, 13, 1977; minimum daily recorded 4.0°C Jan. 22-24, 26, 30, Feb. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)
OCT							
11...	0620	81341	6550	112	109	6.90	7.30
NOV							
15...	0730	81341	5570	118	–	7.10	7.40
DEC							
07...	0810	81341	5520	128	125	7.00	7.40
28...	1030	80020	5400	120	120	7.20	7.30
JAN							
10...	0800	81341	6150	113	111	6.87	7.30
FEB							
07...	0745	81341	5680	120	122	7.54	7.40
MAR							
08...	0800	81341	10100	106	108	6.96	7.10
28...	1200	80020	13300	70	73	6.70	6.90
APR							
11...	0700	81341	7960	110	109	7.34	7.10
MAY							
10...	0710	81341	6120	139	145	7.29	7.30
JUN							
13...	0640	81341	5880	110	112	7.38	7.30
JUL							
07...	0830	80020	6600	110	122	7.20	7.10
11...	0705	81341	6370	110	–	7.09	7.00
AUG							
21...	0635	81341	6050	146	153	7.17	7.20
SEP							
25...	0705	81341	13200	78	76	6.86	6.90
30...	1030	80020	9480	100	102	7.20	7.30

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
OCT								
11...	81341	18.0	9.0	7.6	80	--	23	--
NOV								
15...	81341	15.5	13.0	8.6	89	--	25	--
DEC								
07...	81341	11.0	6.5	10.0	90	--	26	--
28...	80020	14.0	--	9.5	92	24	--	25
JAN								
10...	81341	12.0	7.0	9.6	88	--	25	--
FEB								
07...	81341	15.5	18.0	8.4	84	--	24	--
MAR								
08...	81341	12.0	0.0	9.0	83	--	19	--
28...	80020	14.5	--	8.4	82	15	--	16
APR								
11...	81341	14.5	4.5	8.5	83	--	25	--
MAY								
10...	81341	19.5	18.0	7.3	80	--	27	--
JUN								
13...	81341	26.0	24.5	6.7	83	--	24	--
JUL								
07...	80020	27.5	--	6.5	82	25	--	26
11...	81341	27.0	27.5	5.8	72	--	22	--
AUG								
21...	81341	25.5	24.0	5.1	62	--	23	--
SEP								
25...	81341	20.5	15.0	6.6	73	--	17	--
30...	80020	21.0	--	7.3	82	22	--	25

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	COLOR (PLATINUM-COBALT UNITS)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	TURBIDITY (NTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT										
11...	81341	--	--	17	0.5	790	--	--	--	--
NOV										
15...	81341	30	--	7.0	1.8	20	--	--	--	--
DEC										
07...	81341	30	--	6.0	1.3	20	--	--	--	--
28...	80020	--	--	2.9	--	--	110	460	23	6.8
JAN										
10...	81341	35	--	8.0	1.4	50	--	--	--	--
FEB										
07...	81341	40	--	7.0	0.9	70	--	--	--	--
MAR										
08...	81341	55	--	23	1.8	70	--	--	--	--
28...	80020	--	--	21	--	--	550	210	18	4.8
APR										
11...	81341	40	--	17	0.5	330	--	--	--	--
MAY										
10...	81341	40	--	13	1.0	<35	--	--	--	--
JUN										
13...	81341	15	--	16	0.3	--	--	--	--	--
JUL										
07...	80020	--	--	10	--	--	K44	380	23	6.8
11...	81341	50	--	19	0.9	20	--	--	--	--
AUG										
21...	81341	40	15	11	1.0	200	--	--	--	--
SEP										
25...	81341	30	25	22	0.8	220	--	--	--	--
30...	80020	--	--	8.0	--	--	2000	330	21	6.0

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
DEC										
28...	80020	1.5	14	55	1	1.5	16	10	0.10	8.7
MAR										
28...	80020	1.4	7.0	43	0.7	1.6	17	6.2	0.10	8.1
JUL										
07...	80020	1.5	16	58	1	1.8	12	11	0.10	8.7
SEP										
30...	80020	1.5	12	51	1	3.1	9.0	7.9	0.10	10

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DISSOLVED (MG/L AS P)	PHOSPHOROUS ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
11...	81341	--	--	--	--	11	0.200	--	--	7.0
NOV										
15...	81341	--	--	--	--	6	0.210	--	--	5.6
DEC										
07...	81341	--	--	--	--	1	0.130	--	--	4.6
28...	80020	78	73	1140	0.11	--	0.100	0.080	0.070	--
JAN										
10...	81341	--	--	--	--	7	0.120	--	--	6.2
FEB										
07...	81341	--	--	--	--	10	0.190	--	--	4.5
MAR										
08...	81341	--	--	--	--	25	0.160	--	--	6.6
28...	80020	61	55	2190	0.08	--	0.140	0.030	0.020	--
APR										
11...	81341	--	--	--	--	15	0.140	--	--	5.6
MAY										
10...	81341	--	--	--	--	6	0.150	--	--	6.0
JUN										
13...	81341	--	--	--	--	20	0.170	--	--	4.6
JUL										
07...	80020	86	73	1530	0.12	--	0.180	0.140	0.120	--
11...	81341	--	--	--	--	20	0.210	--	--	5.1
AUG										
21...	81341	--	--	--	--	12	0.150	--	--	8.2
SEP										
25...	81341	--	--	--	--	27	0.180	--	--	--
30...	80020	57	62	1460	0.08	--	0.110	0.060	0.050	--

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT								
11...	81341	--	0.280	--	0.100	--	--	--
NOV								
15...	81341	--	0.470	--	<0.030	--	--	--
DEC								
07...	81341	--	0.390	--	0.060	--	--	--
28...	80020	0.020	--	0.370	0.060	0.080	0.24	0.30
JAN								
10...	81341	--	<0.020	--	0.030	--	--	--
FEB								
07...	81341	--	0.600	--	0.080	--	--	--
MAR								
08...	81341	--	0.490	--	0.060	--	--	--
28...	80020	0.010	--	0.250	0.050	0.050	0.55	0.60
APR								
11...	81341	--	0.460	--	0.030	--	--	--
MAY								
10...	81341	--	0.360	--	0.030	--	--	--
JUN								
13...	81341	--	0.400	--	0.040	--	--	--
JUL								
07...	80020	0.010	--	0.430	0.020	0.020	0.38	0.40
11...	81341	--	0.490	--	0.120	--	--	--
AUG								
21...	81341	--	0.500	--	0.080	--	--	--
SEP								
25...	81341	--	0.250	--	0.070	--	0.83	0.90
30...	80020	0.010	--	0.120	0.040	0.030	0.36	0.40

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
DEC 28...	80020	30	<1	40	<0.5	<1	<1	<3	2	210	<5
MAR 28...	80020	80	<1	69	<0.5	<1	1	<3	3	400	<5
JUL 07...	80020	70	<1	50	<0.5	<1	<1	<3	2	250	1
SEP 30...	80020	80	<1	56	<0.5	<1	<1	<3	2	390	1

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 28...	80020	<4	13	<0.1	<10	6	<1	<1.0	37	<6	31
MAR 28...	80020	<4	17	<0.1	<10	<1	<1	<1.0	30	<6	18
JUL 07...	80020	<4	11	<0.1	<10	2	<1	<1.0	39	<6	20
SEP 30...	80020	<4	32	0.3	<10	<1	<1	<1.0	36	<6	23

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC 28...	1035	84213	5400	14.0	10	146	96
MAR 29...	1205	84213	13300	14.5	40	1440	100
JUL 07...	0835	84213	6600	27.5	27	481	100
SEP 30...	1035	84213	9480	21.0	26	665	92

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	TRITIUM IN WATER MOLECULES (TU)	TRITIUM WATER MOLECULES COUNT ERROR (TU)
OCT					
11...	0621	85113	6550	599	10.0
NOV					
15...	0731	85113	5570	775	10.0
DEC					
07...	0811	85113	5520	1120	14.0
JAN					
10...	0801	85113	6150	2310	23.0
FEB					
07...	0746	85113	5680	1050	14.0
MAR					
08...	0801	85113	10100	847	12.0
APR					
11...	0701	85113	7960	692	11.0
MAY					
10...	0711	85113	6120	825	14.0
JUN					
13...	0641	85113	5880	1120	13.0
JUL					
11...	0706	85113	6370	862	10.0
AUG					
21...	0636	85113	6050	644	9.0
SEP					
25...	0706	85113	13200	223	9.0

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
DEC											
28...	1030	80020	5400	0.5	<0.4	0.6	2.6	0.6	2.3	0.03	0.01

02198760 SAVANNAH RIVER ABOVE HARDEEVILLE, S.C.

LOCATION.--Lat 32°20'21", long 81°07'43", Jasper County, S.C., Hydrologic Unit 03060109, at right downstream side of the fishing pier on Becks Ferry Road, 12 mi upstream from Abercorn Creek, and 5 mi northwest of Hardeeville, S.C.

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 12.81 ft, Mar. 15, 1987; minimum elevation recorded, 2.34 ft, July 22, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 10.14 ft, Sept. 27, 28; minimum elevation recorded, 2.86 ft, June 9.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.55	4.52	5.79	3.54	5.05	3.40	5.20	3.39	5.34	3.50	---	---
2	6.20	4.22	5.29	3.30	4.99	3.35	5.41	3.40	5.30	3.35	---	---
3	6.15	4.08	5.50	3.31	5.04	3.39	5.66	3.60	5.54	3.26	---	---
4	5.91	3.98	5.79	3.50	5.21	3.37	5.61	3.70	5.65	3.26	---	---
5	6.09	4.06	6.04	3.82	5.82	3.57	6.14	4.00	6.24	3.47	---	---
6	6.83	4.40	5.57	3.67	5.93	3.56	6.48	4.13	6.30	3.61	---	---
7	7.94	5.99	5.48	3.51	5.80	3.44	6.32	4.12	---	---	---	---
8	8.33	7.33	5.75	3.64	5.77	3.38	6.71	4.65	---	---	---	---
9	8.32	7.10	5.86	3.70	5.92	3.37	6.63	4.60	---	---	---	---
10	7.77	5.80	6.02	3.64	6.06	3.40	6.54	4.34	---	---	---	---
11	7.00	4.98	5.79	3.56	6.00	3.40	6.42	4.08	---	---	---	---
12	6.43	4.38	6.17	3.65	6.30	3.45	6.23	4.07	---	---	---	---
13	6.21	4.11	6.09	3.73	6.19	3.64	6.00	4.07	---	---	---	---
14	5.99	3.82	5.89	3.60	5.95	3.47	6.44	4.48	---	---	---	---
15	5.83	3.61	5.97	3.60	5.64	3.42	6.53	4.70	---	---	---	---
16	5.79	3.58	5.99	3.60	5.74	3.42	6.22	4.45	---	---	---	---
17	5.81	3.68	5.68	3.48	5.97	3.59	6.35	4.27	---	---	---	---
18	5.86	3.57	5.94	3.39	5.76	3.41	6.33	4.43	---	---	6.14	4.42
19	5.74	3.39	6.22	3.66	5.91	3.53	5.98	3.94	---	---	6.14	4.30
20	6.30	3.48	6.34	3.85	5.90	3.44	6.01	3.70	---	---	6.37	4.44
21	6.21	3.77	6.02	3.71	5.94	3.34	6.25	3.89	---	---	6.15	4.21
22	6.10	3.60	6.34	3.63	5.89	3.26	6.51	4.38	---	---	---	---
23	6.38	3.62	6.53	3.79	6.20	3.40	6.35	4.22	---	---	---	---
24	6.44	3.85	6.43	3.70	5.98	3.37	6.26	4.02	---	---	---	---
25	6.39	3.69	6.23	3.67	5.70	3.32	5.84	3.66	---	---	---	---
26	6.37	3.69	6.25	3.59	5.79	3.25	5.58	3.54	---	---	---	---
27	6.40	3.56	6.05	3.63	5.78	3.32	5.31	3.46	---	---	---	---
28	6.28	3.66	5.46	3.55	5.39	3.20	5.57	3.71	---	---	---	---
29	6.18	3.62	5.83	3.61	5.17	3.01	5.49	4.09	---	---	---	---
30	6.33	3.82	5.45	3.57	5.24	3.25	5.55	3.79	---	---	---	---
31	6.24	3.88	---	---	5.29	3.25	5.01	3.55	---	---	---	---
MONTH	8.33	3.39	6.53	3.30	6.30	3.01	6.71	3.39	---	---	---	---

02198760 SAVANNAH RIVER ABOVE HARDEEVILLE, S.C.--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	6.29	4.00	6.07	2.96	6.74	4.12	6.68	4.77	7.55	5.65
2	---	---	6.17	3.80	6.09	2.92	6.62	3.96	6.64	4.58	7.85	6.77
3	---	---	6.52	3.91	6.15	2.98	6.45	3.83	6.96	4.92	7.98	7.17
4	---	---	6.83	4.22	6.16	2.97	6.39	3.73	7.02	5.71	8.06	7.22
5	---	---	7.01	4.52	6.13	2.93	6.31	3.66	7.08	5.56	7.76	6.21
6	---	---	6.98	4.66	5.94	2.92	6.17	3.70	6.64	5.20	6.83	4.99
7	---	---	6.83	4.52	6.02	2.90	5.86	4.12	6.42	4.62	6.55	4.75
8	---	---	6.65	4.42	5.75	2.91	6.60	5.47	5.87	4.10	7.28	5.53
9	---	---	6.58	4.14	5.75	2.86	7.12	6.30	5.85	3.80	7.74	6.49
10	---	---	6.26	3.88	5.05	2.94	6.97	5.18	5.65	3.64	8.06	7.02
11	---	---	5.73	3.96	5.11	3.02	6.02	4.31	5.57	3.56	8.21	7.35
12	---	---	5.98	4.19	5.63	3.38	5.60	3.94	5.81	3.69	8.01	6.99
13	---	---	6.01	4.30	5.52	3.72	5.54	3.80	5.92	3.75	7.37	5.43
14	---	---	6.75	5.14	5.55	3.48	5.79	3.77	6.14	3.72	7.15	5.10
15	---	---	6.62	5.22	5.58	3.28	6.37	4.04	6.19	3.54	7.86	5.86
16	---	---	5.99	4.32	5.58	3.30	6.38	4.58	6.22	3.53	8.10	6.93
17	---	---	6.03	3.91	5.68	3.07	6.69	4.85	6.26	3.64	8.17	7.07
18	---	---	6.17	3.92	5.93	3.25	6.74	4.65	6.31	3.89	7.89	6.40
19	---	---	6.24	3.97	6.11	3.42	6.72	4.57	6.34	4.16	7.36	5.49
20	---	---	6.26	3.87	6.15	3.49	7.03	4.93	6.46	4.35	6.55	4.42
21	---	---	6.26	3.94	6.15	3.48	7.14	5.75	6.45	4.41	6.59	4.13
22	9.38	8.20	6.18	3.97	6.03	3.76	7.32	6.06	6.14	3.94	7.18	4.94
23	8.65	6.71	6.16	3.62	6.15	4.20	7.47	6.25	5.84	3.53	8.13	6.29
24	7.58	5.73	5.60	3.42	6.90	5.45	7.58	6.39	5.81	3.28	9.28	7.74
25	6.91	4.99	5.69	3.36	7.77	6.60	7.88	6.75	6.21	3.82	9.88	9.08
26	6.33	4.59	5.77	3.29	7.91	6.88	7.91	6.80	7.20	4.73	10.04	9.63
27	6.23	4.52	5.61	3.32	7.55	6.05	7.64	6.51	7.48	6.05	10.14	9.77
28	6.10	4.50	6.15	3.33	6.85	5.14	7.59	6.42	7.28	5.90	10.14	9.35
29	6.19	4.29	6.15	3.59	6.70	4.31	7.54	6.22	6.91	5.30	9.52	8.23
30	6.09	4.12	6.09	3.31	6.90	4.17	7.31	5.77	6.63	4.52	8.66	7.54
31	---	---	6.07	3.11	---	---	6.97	5.41	6.77	4.50	---	---
MONTH	---	---	7.01	3.11	7.91	2.86	7.91	3.66	7.48	3.28	10.14	4.13

02198810 ABERCORN CREEK NEAR SAVANNAH, GA.

LOCATION.--Lat 32°15'20", long 81°10'42", Effingham County, Hydrologic Unit 03060109, at city of Savannah water intake on Abercorn Road, 1.9 mi above mouth, 4.3 mi southeast of Rincon, and 13 mi north-northwest of Savannah.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1986 to September 1987 and April 1988 to November 1989 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 6.50 ft, Mar. 18, 1987; minimum elevation recorded, -3.93 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT PERIOD.--Water year 1989: maximum elevation recorded, 6.19 ft, Mar. 10; minimum elevation recorded, -3.93 ft, Apr. 7.

October to November 1989: Maximum elevation recorded during period, 6.20 ft, Oct. 15; minimum elevation recorded, -1.81 ft, Nov. 7.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.61	-1.28	5.19	-1.13	4.16	-1.87	4.45	-1.88	4.51	-2.40	4.15	-1.01
2	5.29	-1.45	4.59	-1.79	4.06	-2.15	4.66	-1.73	4.47	-2.54	4.75	-0.92
3	5.29	-1.43	4.84	-1.43	4.11	-2.44	4.87	-2.29	4.82	-3.03	5.17	-1.52
4	5.06	-1.63	5.05	-1.43	4.28	-2.45	4.58	-3.65	4.95	-3.39	5.29	-1.79
5	5.20	-1.05	5.26	-1.72	5.08	-1.64	5.19	-2.72	5.63	-2.65	5.56	-2.06
6	5.34	-0.77	4.72	-2.32	5.24	-2.18	5.60	-2.20	5.69	-2.43	5.67	-1.90
7	5.49	-0.26	4.60	-3.01	5.15	-2.62	5.31	-2.94	5.62	-2.39	5.86	-1.97
8	5.56	-0.10	4.94	-2.79	5.14	-2.77	5.54	-2.45	5.35	-2.73	6.01	-0.76
9	5.61	-0.37	5.09	-2.69	5.32	-2.76	5.52	-2.49	5.31	-2.74	6.09	-0.34
10	5.62	-0.66	5.31	-2.51	5.47	-2.43	5.66	-1.92	5.37	-2.94	6.19	-0.15
11	5.36	-1.50	5.07	-2.59	5.41	-2.47	5.62	-2.05	5.25	-2.97	6.17	-0.59
12	5.21	-1.95	5.52	-1.74	5.74	-1.83	5.42	-2.13	4.92	-2.84	5.97	-1.60
13	5.38	-1.71	5.40	-1.75	5.57	-1.86	5.11	-2.82	4.94	-2.60	5.56	-1.43
14	5.25	-1.75	5.19	-2.19	5.34	-2.33	5.36	-1.86	4.87	-2.79	5.42	-1.72
15	5.15	-1.87	5.30	-2.26	4.97	-2.57	5.21	-2.62	4.65	-2.53	4.92	-2.27
16	5.06	-1.81	5.32	-1.93	5.07	-2.26	5.00	-2.92	4.83	-3.09	4.77	-2.04
17	5.05	-1.67	4.97	-2.89	5.33	-3.04	5.24	-2.94	5.15	-2.09	5.09	-1.97
18	5.21	-1.58	5.32	-2.16	5.05	-2.90	5.20	-2.64	5.46	-1.68	5.03	-2.34
19	5.15	-2.06	5.59	-1.95	5.19	-2.90	5.05	-3.18	5.43	-1.78	5.10	-2.51
20	5.75	-1.13	5.64	-2.36	5.23	-3.16	5.20	-3.24	5.48	-1.90	5.41	-1.63
21	5.64	-1.38	5.29	-3.29	5.34	-3.15	5.33	-3.10	5.38	-2.11	5.12	-2.64
22	5.51	-2.32	5.69	-3.08	5.33	-3.12	5.54	-1.76	5.03	-2.50	5.69	-2.74
23	5.80	-2.42	5.88	-2.23	5.66	-2.43	5.48	-1.42	4.03	-3.24	5.64	-0.82
24	5.82	-1.86	5.79	-2.54	5.41	-2.61	5.49	-1.60	4.70	-3.66	5.43	-2.34
25	5.78	-2.67	5.60	-2.45	5.10	-2.80	5.07	-2.24	4.85	-1.93	5.16	-2.28
26	5.77	-2.43	5.58	-2.58	5.25	-2.47	4.79	-2.32	4.86	-1.94	5.09	-1.92
27	5.86	-2.35	5.33	-2.33	5.25	-2.06	4.42	-2.37	4.18	-1.45	5.00	-1.84
28	5.67	-2.11	4.55	-2.74	4.75	-2.60	4.61	-1.69	4.05	-1.84	4.82	-1.55
29	5.50	-2.41	5.03	-2.61	4.51	-2.42	4.25	-1.92	---	---	4.55	-1.45
30	5.64	-1.39	4.59	-1.81	4.58	-1.65	4.30	-2.04	---	---	4.48	-1.48
31	5.61	-0.59	---	---	4.64	-1.74	3.70	-2.05	---	---	4.33	-2.62
MONTH	5.86	-2.67	5.88	-3.29	5.74	-3.16	5.66	-3.65	5.69	-3.66	6.19	-2.74

SAVANNAH RIVER BASIN

02198810 ABERCORN CREEK NEAR SAVANNAH, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY				JULY		AUGUST		SEPTEMBER	
1	4.75	-2.49	[illegible]	[illegible]			[illegible]	-2.05	5.44	-2.92	5.39	-1.52
2	5.07	[illegible]	[illegible]	[illegible]				-2.35	5.54	-2.52	5.18	-1.40
3	5.30	[illegible]	[illegible]	[illegible]				-2.65	5.58	-1.81	5.31	-1.65
4	5.51	-2.92	[illegible]					-2.69	5.45	-1.80	5.25	-0.54
5	5.62	-2.90						-2.57	5.21	-1.97	4.99	-1.29
6	5.54	[illegible]						-2.71	4.80	-2.26	5.09	-0.94
7	5.21	-3.93	[illegible]	[illegible]				-2.80	4.65	-1.87	5.29	-0.65
8	5.35	-3.19	5.61		[illegible]			-2.83	4.88	-1.84	5.29	-0.40
9	5.35	[illegible]	5.63	[illegible]				-2.26	5.04	-0.94	5.23	-0.72
10	5.42	[illegible]	5.35	[illegible]				-1.96	4.95	-1.36	5.36	-0.85
11	5.26	-1.65	4.68	[illegible]	[illegible]	[illegible]	[illegible]	-2.32	4.80	-1.53	[illegible]	[illegible]
12	5.34	-1.13	5.02	-1.38	4.78	-2.17	4.57	-2.27	5.02	-1.76		[illegible]
13	5.16	-1.17	4.77	-2.04	4.57	-2.59	4.52	-2.55	5.12	-2.01		[illegible]
14	4.94	-1.18	4.82	-1.77	4.73	-2.88	4.81	-2.79	5.47	-2.12		[illegible]
15	5.11	-0.94	4.82	-2.21	4.82	-2.75	5.37	-2.36	5.59	-2.31	[illegible]	[illegible]
16	5.21	-1.42	4.92	-2.42	4.91	-2.43	4.99	-2.63	5.62	-2.55		[illegible]
17	5.04	-1.68	5.17	-2.44	5.09	-3.01	5.40	-2.89	5.61	-2.56	[illegible]	-1.65
18	5.20	-1.89	5.31	-2.37	5.32	-2.66	5.67	-2.72	5.57	-2.41	5.84	-1.78
19	5.23	-1.97	5.40	-2.34	5.44	-2.72	5.64	-2.50	5.52	-2.11	5.75	-1.42
20	5.50	-1.76	5.46	-2.40	5.50	-2.68	5.72	-2.48	5.56	-2.14	5.55	-2.02
21	5.82	-0.97	5.39	-2.49	5.32	-2.84	5.70	-2.01	5.53	-2.04	5.68	-1.78
22	5.63	-1.18	5.33	-2.43	5.28	-2.71	5.57	-1.94	5.38	-2.39	5.44	-1.35
23	5.43	-2.21	5.00	-2.65	5.30	-2.64	5.48	-1.97	5.20	-2.74	5.34	-1.72
24	5.12	-1.99	4.99	-3.05	5.30	-2.53	5.39	-2.33	5.15	-3.02	5.50	-1.12
25	5.04	-2.43	5.00	-2.66	5.36	-2.39	5.52	-2.47	5.26	-2.48	5.77	.17
26	4.76	-2.54	5.12	-2.56	5.49	-1.97	5.60	-2.08	5.64	-1.58	5.45	-0.79
27	4.96	-2.13	4.95	-2.91	5.46	-2.35	5.47	-2.26	5.64	-1.53	6.00	-0.41
28	4.81	-2.03	5.59	-2.47	5.58	-2.76	5.37	-2.74	5.62	-1.40	5.84	.72
29	5.10	-2.10	5.59	-1.66	5.76	-2.91	5.62	-2.75	5.62	-1.94	5.69	-0.15
30	5.15	-2.58	5.54	-2.64	6.06	-1.92	5.72	-2.45	5.46	-2.06	5.47	-0.87
31	---	---	5.57	-3.04	---	---	5.53	-2.73	5.42	-1.96	---	---
MONTH	5.82	-3.93	6.01	-3.52	6.06	-3.49	5.95	-2.89	5.64	-3.02	6.00	-2.02
YEAR	6.19	-3.93										

02198810 ABERCORN CREEK NEAR SAVANNAH, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.48	-1.05	5.33	-1.17								
2	5.15	-1.49	5.35	-1.44								
3	5.07	-1.58	5.19	-1.17								
4	5.11	-1.44	5.13	-1.22								
5	5.17	-0.76	5.35	-0.97								
6	4.75	-0.89	5.13	-1.24								
7	4.67	-1.33	5.01	-1.81								
8	4.87	-1.00	---	---								
9	5.35	-0.10	---	---								
10	5.46	-0.12	---	---								
11	5.71	-0.38	---	---								
12	5.79	-0.25	---	---								
13	5.86	-0.14	---	---								
14	6.09	-0.29	---	---								
15	6.20	.14	---	---								
16	6.16	.06	---	---								
17	6.15	.16	---	---								
18	6.02	.29	---	---								
19	5.54	.84	---	---								
20	5.18	.17	---	---								
21	5.30	-0.02	---	---								
22	5.34	-0.37	---	---								
23	5.31	.00	---	---								
24	5.24	-0.05	---	---								
25	5.41	-0.16	---	---								
26	5.64	.00	---	---								
27	5.79	.11	---	---								
28	5.91	.15	---	---								
29	5.88	-0.15	---	---								
30	5.89	.16	---	---								
31	5.68	-0.53	---	---								
MONTH	6.20	-1.58	---	---								

02198810 ABERCORN CREEK NEAR SAVANNAH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1986 to September 1987, April 1988 to November 1989 (discontinued).
INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded every 15 minutes.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 190 microsiemens Apr. 30, 1989; minimum recorded, 40 microsiemens on many days in Jan., May, 1987, Sept. 25, 26, 1989, Oct. 11, 1989.
EXTREMES FOR CURRENT PERIOD.--
SPECIFIC CONDUCTANCE:
Water Year 1989:--Maximum recorded, 190 microsiemens Apr. 30; minimum recorded, 40 microsiemens Sept. 25, 26.
October to November 1989:--Maximum recorded, 130 microsiemens Nov. 3,4; minimum recorded, 40 microsiemens, Oct. 11.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	120	100	140	130	140	120	130	120	120	110	110	90
2	120	100	140	130	140	120	130	120	130	110	110	90
3	130	110	150	130	140	120	130	120	130	110	120	90
4	140	100	150	130	140	120	130	120	130	110	120	90
5	130	90	140	130	140	130	130	110	130	110	120	90
6	130	90	140	130	140	130	130	110	130	120	110	90
7	130	100	140	130	140	130	130	110	130	120	110	100
8	120	80	140	130	140	130	120	110	130	120	110	100
9	100	80	140	130	140	130	130	110	130	120	110	100
10	180	80	140	130	140	130	120	100	130	120	110	100
11	100	80	150	130	140	130	130	110	130	120	110	100
12	130	80	150	130	140	130	130	110	130	120	110	90
13	130	100	150	130	140	120	120	110	130	110	120	90
14	140	100	150	130	140	120	120	110	130	110	120	100
15	140	110	150	130	140	120	120	100	130	120	120	100
16	140	110	150	130	140	120	120	100	130	120	130	100
17	140	110	150	130	130	120	120	100	140	120	130	100
18	150	120	150	130	130	120	120	110	140	130	130	110
19	160	120	150	140	130	120	120	100	140	120	130	110
20	140	120	150	140	130	120	120	110	140	120	130	110
21	140	130	150	130	130	120	120	110	140	120	130	110
22	140	120	150	140	140	120	120	110	130	120	130	110
23	150	130	150	130	140	120	120	110	130	120	130	120
24	140	130	150	130	140	120	120	110	130	120	130	110
25	150	130	140	130	140	120	120	110	130	90	130	110
26	150	130	150	130	140	120	130	110	130	80	130	110
27	140	130	150	130	140	120	130	110	120	80	120	90
28	140	130	150	130	130	120	130	110	110	90	110	80
29	140	130	150	130	140	120	130	110	---	---	110	70
30	150	130	140	120	130	120	130	110	---	---	110	80
31	140	130	---	---	130	120	120	110	---	---	100	80
MONTH	180	80	150	120	140	120	130	100	140	80	130	70

02198810 ABERCORN CREEK NEAR SAVANNAH, GA.--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SPTEMBER	
1	110	90	130	110	120	110	130	90	120	100	120	80
2	110	90	140	110	130	110	140	100	120	100	---	---
3	120	100	140	120	130	110	130	100	130	100	90	50
4	120	100	140	120	130	120	130	100	130	100	100	60
5	120	100	140	120	130	110	130	70	130	100	---	---
6	120	100	140	120	130	110	130	60	120	100	130	90
7	130	110	130	120	130	110	140	60	120	100	130	110
8	130	110	130	120	130	110	140	70	120	100	140	110
9	130	110	130	120	130	110	120	70	---	---	140	110
10	130	110	130	110	130	120	100	80	---	---	130	110
11	130	90	130	110	130	120	110	90	140	100	130	120
12	120	90	140	110	130	120	130	100	140	100	130	110
13	120	80	140	110	130	110	130	100	140	100	120	100
14	100	90	130	110	130	100	130	100	130	100	120	80
15	100	80	130	100	130	100	130	100	130	100	---	---
16	100	80	120	100	120	110	130	110	130	80	---	---
17	100	90	130	110	120	110	130	110	140	80	---	---
18	110	90	140	110	120	100	120	100	140	80	---	---
19	110	90	130	110	130	90	120	100	140	90	90	70
20	110	70	130	110	130	90	130	110	130	90	90	70
21	100	80	130	120	130	100	130	100	130	100	---	---
22	100	80	130	120	120	100	120	90	---	---	---	---
23	110	80	130	110	120	100	110	90	---	---	---	---
24	110	90	130	110	120	100	110	90	150	100	---	---
25	110	90	130	110	110	90	110	90	---	---	60	40
26	120	100	120	110	110	80	100	90	---	---	80	40
27	120	100	120	110	110	80	100	90	---	---	90	50
28	130	100	120	110	130	90	110	90	120	70	90	50
29	130	110	120	110	130	90	110	90	110	50	120	80
30	190	110	120	110	130	90	110	100	110	60	---	---
31	---	---	130	110	---	---	120	100	130	70	---	---
MONTH	190	70	140	100	130	80	140	60	150	50	140	40
YEAR	190	40										

02198810 ABERCORN CREEK NEAR SAVANNAH, GA.--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	120	110	---	---	---	---	---	---	---	---
2	---	---	120	80	---	---	---	---	---	---	---	---
3	110	60	130	80	---	---	---	---	---	---	---	---
4	---	---	130	80	---	---	---	---	---	---	---	---
5	---	---	100	80	---	---	---	---	---	---	---	---
6	100	80	90	70	---	---	---	---	---	---	---	---
7	100	70	---	---	---	---	---	---	---	---	---	---
8	90	50	---	---	---	---	---	---	---	---	---	---
9	90	50	---	---	---	---	---	---	---	---	---	---
10	90	50	---	---	---	---	---	---	---	---	---	---
11	80	40	---	---	---	---	---	---	---	---	---	---
12	80	50	---	---	---	---	---	---	---	---	---	---
13	80	40	---	---	---	---	---	---	---	---	---	---
14	80	50	---	---	---	---	---	---	---	---	---	---
15	80	40	---	---	---	---	---	---	---	---	---	---
16	80	50	---	---	---	---	---	---	---	---	---	---
17	80	40	---	---	---	---	---	---	---	---	---	---
18	70	40	---	---	---	---	---	---	---	---	---	---
19	70	50	---	---	---	---	---	---	---	---	---	---
20	70	60	---	---	---	---	---	---	---	---	---	---
21	70	60	---	---	---	---	---	---	---	---	---	---
22	70	50	---	---	---	---	---	---	---	---	---	---
23	90	50	---	---	---	---	---	---	---	---	---	---
24	90	50	---	---	---	---	---	---	---	---	---	---
25	90	60	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	120	70	---	---	---	---	---	---	---	---	---	---
28	110	70	---	---	---	---	---	---	---	---	---	---
29	110	70	---	---	---	---	---	---	---	---	---	---
30	110	80	---	---	---	---	---	---	---	---	---	---
31	110	80	---	---	---	---	---	---	---	---	---	---
MONTH	120	40	130	70	---	---	---	---	---	---	---	---

02198840 SAVANNAH RIVER NEAR PORT WENTWORTH, GA.

LOCATION.--Lat 32°14'08", long 81°09'05", Effingham County, Hydrologic Unit 03060109, at right downstream fender of bridge on Interstate 95, 1 mi downstream from Abercorn Creek, and 6.1 mi north of Port Wentworth.
PERIOD OF RECORD.--June 1986 to current year.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--June 1987 to current year.
GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 6.04 ft, Mar. 10, 1989; minimum elevation recorded, -5.24 ft, Apr. 7, 1989.
EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 6.04 ft, Mar. 10; minimum elevation recorded, -5.24 ft, Apr. 7.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.28	-1.79	4.81	-1.51	3.75	-2.29	4.04	-2.28	4.09	-2.82	3.72	-1.49
2	4.91	-1.90	4.19	-2.19	3.64	-2.59	4.24	-2.13	4.05	-3.17	4.34	-1.35
3	4.89	-1.89	4.43	-1.86	3.69	-2.86	4.46	-3.27	4.42	-3.49	4.78	-2.22
4	4.66	-2.11	4.66	-1.85	3.87	-2.89	4.18	-4.27	4.55	-3.99	4.90	-2.27
5	4.82	-1.45	4.87	-2.26	4.70	-2.04	4.81	-3.27	5.32	-3.26	5.21	-2.73
6	4.97	-1.20	4.31	-2.80	4.87	-2.63	5.28	-2.70	5.39	-3.10	5.34	-2.71
7	5.13	-0.72	4.18	-3.56	4.76	-3.15	4.94	-3.58	5.31	-3.15	5.61	-2.89
8	5.20	-0.72	4.55	-3.34	4.75	-3.37	5.20	-3.11	5.00	-3.55	5.79	-1.54
9	5.27	-1.01	4.70	-3.25	4.96	-3.39	5.17	-3.23	4.95	-3.47	6.00	-1.19
10	5.28	-1.25	4.94	-3.07	5.13	-2.99	5.33	-2.55	5.01	-3.69	6.04	-1.03
11	4.98	-2.09	4.68	-3.13	5.05	-3.06	5.30	-2.71	4.88	-3.63	5.99	-1.45
12	4.82	-2.55	5.17	-2.19	5.44	-2.28	5.06	-2.86	4.41	-3.42	5.72	-2.34
13	5.02	-2.18	5.04	-2.37	5.26	-2.54	4.72	-3.51	4.54	-3.10	5.20	-2.00
14	4.87	-2.20	4.81	-2.68	4.97	-2.87	5.00	-2.44	4.46	-3.26	5.04	-2.24
15	4.77	-2.31	4.92	-2.75	4.57	-3.13	4.83	-3.22	4.24	-3.37	4.51	-2.78
16	4.67	-2.27	4.95	-2.52	4.68	-2.80	4.60	-3.48	4.42	-3.57	4.36	-2.48
17	4.66	-2.10	4.57	-3.48	4.96	-3.64	4.87	-3.16	4.77	-2.49	4.69	-2.43
18	4.83	-1.98	4.95	-2.68	4.66	-3.39	4.82	-3.18	5.12	-2.13	4.64	-2.86
19	4.77	-2.50	5.26	-2.44	4.81	-3.51	4.66	-3.83	5.09	-2.29	4.70	-3.04
20	5.46	-1.59	5.32	-3.09	4.86	-3.83	4.82	-3.94	5.14	-2.45	5.04	-2.25
21	5.32	-2.00	4.92	-4.18	4.98	-3.83	4.97	-3.79	5.02	-2.75	4.74	-3.31
22	5.17	-3.02	5.39	-3.82	4.97	-3.88	5.21	-2.23	4.63	-3.07	5.37	-3.48
23	5.54	-3.25	5.63	-2.93	5.35	-3.06	5.13	-1.88	3.61	-3.81	5.31	-1.39
24	5.55	-2.71	5.52	-3.26	5.05	-3.23	5.14	-2.12	4.29	-4.38	4.85	-2.94
25	5.51	-3.61	5.27	-3.17	4.72	-3.42	4.68	-2.81	4.44	-2.51	4.77	-2.95
26	5.50	-3.27	5.23	-3.25	4.87	-2.96	4.38	-2.81	4.43	-2.63	4.68	-2.55
27	5.60	-3.12	4.95	-2.89	4.87	-2.56	3.99	-2.84	3.72	-2.08	4.50	-2.54
28	5.35	-2.86	4.07	-3.19	4.34	-3.16	4.20	-2.13	3.61	-2.44	4.33	-2.23
29	5.15	-2.99	4.65	-3.09	4.10	-2.84	3.84	-2.35	---	---	4.09	-2.15
30	5.32	-1.85	4.19	-2.26	4.16	-2.08	3.89	-2.45	---	---	4.01	-2.21
31	5.28	-0.99	---	---	4.22	-2.15	3.27	-2.47	---	---	3.86	-3.27
MONTH	5.60	-3.61	5.63	-4.18	5.44	-3.88	5.33	-4.27	5.39	-4.38	6.04	-3.48

02198840 SAVANNAH RIVER NEAR PORT WENTWORTH, GA.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.35	-3.15	5.08	-3.45	5.30	-4.22	5.74	-2.75	5.10	-3.65	5.01	-2.15
2	4.67	-3.11	5.02	-4.32	5.31	-4.32	5.62	-3.13	5.21	-3.18	4.77	-2.03
3	4.93	-3.44	5.47	-3.96	5.40	-4.29	5.40	-3.42	5.25	-2.44	4.90	-2.37
4	5.18	-3.80	5.77	-3.19	5.40	-4.15	5.27	-3.41	4.90	-2.41	4.83	-1.12
5	5.32	-3.88	5.82	-3.35	5.11	-4.04	5.11	-3.30	4.72	-2.57	4.57	-1.87
6	5.22	-4.65	5.51	-3.74	5.21	-3.88	4.87	-3.38	4.44	-2.88	4.69	-1.39
7	4.84	-5.24	5.31	-3.99	5.20	-3.50	4.36	-3.49	4.44	-2.41	4.90	-1.06
8	5.00	-4.09	5.29	-3.28	4.87	-3.35	4.17	-3.49	4.48	-2.34	4.91	-0.82
9	5.01	-3.99	5.31	-3.18	4.81	-3.65	3.92	-2.89	4.66	-1.35	4.84	-1.21
10	5.07	-2.95	4.98	-3.32	3.95	-3.55	4.06	-2.50	4.55	-1.79	4.99	-1.36
11	4.86	-2.32	4.26	-3.00	3.97	-3.14	4.06	-2.82	4.40	-1.94	5.10	-1.66
12	4.95	-1.69	4.63	-2.44	4.38	-2.60	4.16	-2.70	4.64	-2.16	5.37	-2.04
13	4.75	-1.80	4.37	-2.54	4.16	-3.06	4.10	-3.22	4.74	-2.42	5.55	-2.03
14	4.51	-1.87	4.41	-2.26	4.34	-3.35	4.41	-3.26	5.12	-2.61	5.53	-2.24
15	4.68	-1.96	4.42	-2.73	4.41	-3.19	5.02	-2.87	5.24	-2.88	5.59	-2.54
16	4.80	-2.17	4.52	-2.90	4.50	-2.90	4.60	-3.19	5.30	-3.29	5.44	-2.36
17	4.62	-2.43	4.79	-2.91	4.70	-3.58	5.05	-3.51	5.29	-3.31	5.48	-2.56
18	4.79	-2.66	4.95	-2.91	4.94	-3.26	5.38	-3.38	5.24	-3.19	5.59	-2.68
19	4.81	-2.77	5.05	-2.86	5.09	-3.34	5.34	-3.22	5.18	-2.94	5.46	-2.14
20	5.12	-2.60	5.12	-2.94	5.17	-3.29	5.44	-3.28	5.23	-2.92	5.20	-2.66
21	5.52	-1.76	5.04	-3.01	4.96	-3.49	5.26	-2.81	5.18	-2.75	5.34	-2.43
22	5.28	-1.97	4.95	-2.97	4.93	-3.41	5.23	-2.84	5.02	-3.13	5.03	-2.33
23	4.86	-2.91	4.39	-3.19	4.91	-3.39	5.12	-2.90	4.82	-3.40	4.92	-2.51
24	4.72	-2.71	4.61	-3.70	4.93	-3.32	5.02	-3.27	4.74	-3.61	5.10	-1.43
25	4.57	-3.00	4.58	-3.21	5.01	-3.21	5.18	-3.30	4.88	-3.06	5.43	-0.64
26	4.39	-3.07	4.74	-3.15	5.15	-2.76	5.27	-2.84	5.32	-2.11	5.04	-1.76
27	4.56	-2.65	4.56	-3.52	5.11	-3.13	5.12	-2.99	5.31	-2.19	5.74	-1.36
28	4.40	-2.51	5.28	-2.98	5.26	-3.51	5.02	-3.51	5.27	-2.16	5.52	-0.09
29	4.71	-2.60	5.27	-2.21	5.48	-3.66	5.31	-3.51	5.30	-2.65	5.34	-1.01
30	4.77	-3.17	5.22	-3.36	5.89	-2.47	5.42	-3.20	5.11	-2.67	5.08	-1.68
31	---	---	5.25	-3.84	---	---	5.21	-3.54	5.06	-2.55	---	---
MONTH	5.52	-5.24	5.82	-4.32	5.89	-4.32	5.74	-3.54	5.32	-3.65	5.74	-2.68
YEAR	6.04	-5.24										

02198840 SAVANNAH RIVER NEAR PORT WENTWORTH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1986 to current year.
INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded every 15 minutes.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 550 microsiemens Dec. 1, 1987; minimum recorded, 40 microsiemens on many days in Jan., Feb., Mar., 1987.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 220 microsiemens Feb. 6, 7; minimum, 60 microsiemens Mar. 29, Aug. 30.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	110	100	120	110	120	100	130	110	120	110	100	90
2	110	100	130	110	120	110	120	110	130	110	100	90
3	110	100	130	120	130	110	120	110	130	120	120	90
4	120	100	130	120	130	120	120	110	150	120	110	100
5	120	100	130	110	130	120	120	100	200	120	110	90
6	120	100	120	110	130	110	120	100	220	120	100	90
7	120	90	120	110	140	110	120	100	220	120	100	90
8	100	70	130	110	140	120	120	100	210	120	100	90
9	90	70	130	110	160	120	120	100	190	120	110	90
10	90	80	140	120	160	110	120	90	180	110	100	90
11	100	90	140	120	150	110	130	100	150	110	100	80
12	110	100	140	120	140	110	130	110	130	110	100	80
13	110	100	130	120	140	110	130	110	130	110	110	80
14	120	100	130	120	140	110	120	110	120	110	120	90
15	120	110	130	120	130	110	120	100	130	110	120	110
16	130	110	130	120	130	110	110	100	130	120	120	110
17	130	110	130	120	120	110	110	90	140	120	120	110
18	130	110	130	120	130	110	120	100	140	120	130	110
19	120	110	140	120	130	110	110	100	150	120	130	110
20	130	110	140	120	140	110	120	100	150	120	130	110
21	140	110	130	110	150	110	120	110	140	120	130	120
22	140	120	130	110	170	120	120	110	140	110	130	110
23	170	110	130	110	160	120	120	100	120	110	130	110
24	160	110	130	110	150	120	120	100	120	110	130	110
25	160	120	130	110	150	120	130	110	120	80	120	110
26	150	110	130	110	140	120	130	110	90	70	120	110
27	140	110	130	120	130	110	130	120	80	70	110	80
28	140	110	130	110	130	120	130	110	90	70	90	70
29	130	120	130	110	130	120	130	110	---	---	80	60
30	130	110	120	110	130	120	130	110	---	---	90	70
31	120	110	---	---	130	110	120	100	---	---	90	80
MONTH	170	70	140	110	170	100	130	90	220	70	130	60

02198840 SAVANNAH RIVER NEAR PORT WENTWORTH, GA.–Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	100	90	130	120	170	110	120	100	130	100	120	110
2	110	90	130	110	170	120	120	100	120	110	120	90
3	110	100	140	110	180	120	120	110	130	110	100	80
4	110	90	170	110	170	120	130	110	130	120	100	80
5	110	90	150	110	140	110	130	110	130	110	100	80
6	110	100	120	110	140	120	130	120	120	100	100	90
7	110	100	120	100	140	120	130	120	120	110	110	90
8	120	100	120	100	150	120	130	110	120	110	120	100
9	120	110	120	110	130	120	120	80	130	110	120	80
10	120	110	120	110	130	120	90	80	140	120	100	80
11	120	100	120	110	130	110	110	80	140	130	100	70
12	110	90	120	110	130	110	110	100	140	130	100	90
13	100	80	120	110	120	110	120	100	150	130	100	80
14	80	70	120	100	120	110	120	110	140	130	110	90
15	80	70	110	90	120	100	120	110	140	120	130	100
16	80	70	100	80	120	110	120	110	170	120	130	90
17	90	70	120	90	120	110	150	110	190	130	100	90
18	100	80	120	110	130	110	130	110	180	120	100	90
19	110	80	120	110	130	110	130	100	170	110	110	100
20	90	70	120	100	130	120	140	110	150	110	110	100
21	80	70	110	100	130	110	150	110	140	110	120	100
22	90	70	120	100	130	110	130	90	140	120	120	100
23	100	90	110	100	120	110	110	90	140	120	130	100
24	110	90	110	100	120	100	110	80	150	130	110	90
25	110	100	120	100	110	80	120	90	160	140	100	70
26	120	100	120	110	90	80	110	90	150	140	80	70
27	120	100	130	110	90	80	110	90	150	100	90	70
28	120	110	130	110	100	90	120	100	110	80	90	80
29	120	110	140	110	100	90	120	90	110	90	110	80
30	130	110	140	110	120	90	120	90	110	60	110	80
31	---	---	150	110	---	---	130	90	110	100	---	---
MONTH	130	70	170	80	180	80	150	80	190	60	130	70
YEAR	220	60										

02198920 SAVANNAH (FRONT) RIVER AT U.S. 17 AT PORT WENTWORTH, GA.

LOCATION.--Lat 32°09'57", long 81°09'14", Chatham County, Hydrologic Unit 03060109, at right downstream fender of bridge on U.S. 17, 1.4 mi north of Port Wentworth (revised).

PERIOD OF RECORD.--October 1987 to current year.

GAGE-HEIGHT RECORDS

GAGE.--Water-stage recorder. Datum of gage is 3.39 ft below National Geodetic Vertical Datum of 1929, at mean low water (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height recorded, 9.94 ft Mar. 9, 1989; minimum gage height recorded, -3.39 ft Apr. 7, 1989, but was lower during the day when the stage went below the recordable range of the gage.

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 9.94 ft, Mar. 9; minimum gage height recorded, -3.39 ft, Apr. 7, but was lower during the day when the stage went below the recordable range of the gage.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.93	1.52	8.37	2.03	7.24	1.16	7.61	1.22	7.56	.64	7.28	1.93
2	8.50	1.51	7.69	1.29	7.10	.83	7.74	1.40	7.52	-0.14	7.88	2.08
3	8.47	1.54	7.92	1.63	7.21	.60	7.99	-0.74	7.91	-0.10	8.38	1.00
4	8.23	1.25	8.19	1.53	7.40	.45	7.62	-1.13	8.06	-0.92	8.46	.67
5	8.45	2.05	8.42	.86	8.29	1.12	8.40	-0.19	9.01	-0.26	8.81	.18
6	8.59	2.21	7.80	.47	8.45	.70	8.95	.43	9.11	-0.35	8.96	-0.33
7	8.73	2.58	7.65	-0.34	8.31	.00	8.52	-0.69	9.00	-0.78	9.36	-1.05
8	8.82	2.25	8.08	-0.22	8.30	-0.39	8.84	-0.40	8.60	-1.11	9.60	.72
9	8.91	1.88	8.23	-0.16	8.55	-0.44	8.83	-0.65	8.60	-0.82	9.94	.88
10	8.93	1.72	8.52	.00	8.77	.04	9.02	.28	8.61	-1.04	9.83	.91
11	8.59	.92	8.25	-0.02	8.67	-0.04	8.99	.08	8.47	-0.82	9.84	.72
12	8.41	.49	8.85	1.20	9.20	1.13	8.68	-0.34	7.93	-0.41	9.45	.27
13	8.69	1.07	8.67	.59	8.93	.18	8.24	-0.79	8.05	.12	8.84	1.11
14	8.48	1.03	8.38	.50	8.55	.19	8.61	.62	7.95	.14	8.65	1.00
15	8.35	1.08	8.51	.49	8.08	-0.03	8.40	-0.19	7.73	-0.27	8.03	.53
16	8.26	1.12	8.54	.55	8.23	.37	8.13	-0.45	7.93	-0.11	7.81	.89
17	8.24	1.33	8.07	-0.40	8.55	-0.57	8.44	-0.07	8.37	1.07	8.23	.37
18	8.40	1.51	8.56	.56	8.18	-0.45	8.38	-0.25	8.80	1.24	8.14	.32
19	8.33	.92	8.94	-0.38	8.36	-0.80	8.18	-0.94	8.73	.85	8.25	.10
20	9.21	1.31	9.00	-0.83	8.43	-0.93	8.37	-1.12	8.78	.58	8.66	.67
21	8.98	.06	8.51	-1.73	8.57	-1.00	8.60	-0.97	8.58	.10	8.22	-0.42
22	8.81	-0.37	9.12	-1.12	8.56	-1.17	8.89	1.04	8.16	-0.03	9.10	-0.70
23	9.33	-0.74	9.48	-0.24	9.06	-0.14	8.80	1.36	7.13	-0.76	9.00	1.62
24	9.32	-0.36	9.29	-0.49	8.66	-0.31	8.78	.85	7.74	-1.66	8.42	.10
25	9.29	-1.40	8.95	-0.40	8.27	-0.46	8.21	.22	7.94	.46	8.31	-0.08
26	9.25	-0.76	8.88	-0.31	8.46	.30	7.88	.36	7.93	.10	8.19	.38
27	9.40	-0.51	8.53	.24	8.46	.68	7.51	.42	7.24	.91	7.87	.29
28	9.05	-0.06	7.44	.13	7.82	-0.18	7.72	1.16	7.12	.62	7.78	.64
29	8.79	.14	8.15	.16	7.60	.54	7.41	1.00	---	---	7.58	.69
30	9.02	1.53	7.72	1.12	7.66	1.36	7.44	1.03	---	---	7.50	.60
31	8.96	2.32	---	---	7.71	1.26	6.77	.91	---	---	7.35	-0.26
MONTH	9.40	-1.40	9.48	-1.73	9.20	-1.17	9.02	-1.13	9.11	-1.66	9.94	-1.05

02198920 SAVANNAH (FRONT) RIVER AT U.S. 17 AT PORT WENTWORTH, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.74	-0.27	8.69	-0.59	9.02	-1.51	9.60	.04	8.70	-0.80	8.60	.78
2	8.17	-0.42	8.61	-1.64	9.04	-1.68	9.46	-0.41	8.84	-0.30	8.31	.81
3	8.46	-0.95	9.25	-1.43	9.14	-1.68	9.12	-0.58	8.91	.51	8.49	.29
4	8.81	-1.58	9.65	-0.68	9.16	-1.47	8.95	-0.41	8.48	.57	8.48	2.03
5	9.00	-1.80	9.73	-1.06	8.74	-1.19	8.74	-0.30	8.04	.28	8.14	1.21
6	8.88	-2.63	9.26	-1.42	8.90	-0.97	8.07	-0.33	7.95	.13	8.30	2.00
7	8.40	---	9.02	-1.65	8.62	-0.34	7.76	-0.57	7.96	.73	8.53	2.47
8	8.60	-1.85	9.01	-0.58	8.45	-0.35	7.60	-0.58	8.07	.93	8.52	2.67
9	8.72	-1.39	8.94	-0.26	8.36	-0.36	7.42	.03	8.29	2.21	8.45	2.13
10	8.68	-0.16	8.57	-0.07	7.45	-0.36	7.54	.63	8.11	1.68	8.60	1.95
11	8.52	.55	7.86	.29	7.45	.16	7.54	.52	7.95	1.56	8.72	1.47
12	8.55	1.33	8.16	.92	7.89	.84	7.65	.76	8.20	1.37	9.05	.94
13	8.32	1.18	7.86	.77	7.63	.24	7.55	-0.07	8.32	1.06	9.29	.93
14	7.99	1.04	7.91	1.01	7.83	.01	7.89	.12	8.76	.73	9.27	.35
15	8.19	.61	7.93	.48	7.92	.19	8.66	.52	8.88	.26	9.32	-0.23
16	8.28	.61	8.03	.39	8.03	.36	8.25	-0.01	8.99	-0.38	9.11	-0.36
17	8.10	.32	8.33	.40	8.24	-0.37	8.67	-0.50	8.99	-0.58	9.16	-0.50
18	8.31	-0.01	8.54	.25	8.54	-0.14	9.12	-0.53	8.91	-0.51	9.33	-0.48
19	8.34	-0.25	8.68	.37	8.73	-0.27	9.05	-0.41	8.83	-0.44	9.18	.57
20	8.74	-0.18	8.75	.27	8.83	-0.22	9.16	-0.66	8.88	-0.38	8.86	.29
21	9.18	.79	8.65	.07	8.55	-0.46	8.89	-0.38	8.83	-0.09	9.01	.66
22	8.91	.68	8.56	.16	8.53	-0.65	8.74	-0.60	8.62	-0.35	8.54	.56
23	8.43	-0.06	7.76	-0.02	8.50	-0.67	8.75	-0.77	8.38	-0.42	8.47	.36
24	8.28	-0.12	8.16	-0.74	8.52	-0.79	8.61	-0.98	8.32	-0.53	8.77	1.49
25	7.93	.02	8.29	-0.07	8.58	-0.75	8.79	-0.79	8.45	.15	9.06	1.79
26	8.03	.07	8.31	-0.13	8.74	-0.24	8.91	-0.09	9.00	1.14	8.61	.53
27	8.09	.58	8.08	-0.49	8.72	-0.55	8.72	-0.18	8.97	.70	9.42	.96
28	7.94	.82	8.99	.33	8.91	-0.76	8.59	-0.79	8.93	.71	9.17	2.40
29	8.25	.68	8.95	.89	9.28	-0.86	8.98	-0.77	8.98	.25	8.96	1.48
30	8.28	-0.03	8.88	-0.46	9.82	.16	9.13	-0.44	8.74	.38	8.66	1.02
31	---	---	8.94	-1.05	---	---	8.85	-0.93	8.67	.38	---	---
MONTH	9.18	---	9.73	-1.65	9.82	-1.68	9.60	-0.98	9.00	-0.80	9.42	-0.50
YEAR	9.94	---										

02198920 SAVANNAH (FRONT) RIVER AT U.S. 17 AT PORT WENTWORTH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1987 to current year.
INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded every 15 minutes.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 23,400 microsiemens July 15, 1989; minimum recorded, 60 microsiemens Oct. 4, 5, 1987.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 23,400 microsiements July 15; minimum, 70 microsiemens on many days in Feb., Mar., and Sept.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6980	180	15000	180	12600	160	13600	170	14100	130	10100	90
2	6620	150	10100	170	12300	150	14400	180	13700	140	15200	130
3	6650	150	13700	260	13600	160	14400	130	13500	130	15500	110
4	7950	130	14500	250	12700	150	12500	120	12700	150	10000	120
5	11000	180	13400	170	14400	320	13000	140	14500	270	8450	110
6	11700	220	11600	160	12800	200	13400	200	14700	350	7590	100
7	11700	250	10400	130	12500	200	11700	150	13900	410	6450	100
8	9820	150	10900	150	12200	170	11000	150	12100	320	6600	170
9	7940	180	11100	150	11900	170	10000	130	11600	350	7120	170
10	7150	140	11000	160	12000	230	9810	230	11200	170	7190	130
11	6840	110	10500	150	11500	240	9850	180	10600	150	6900	110
12	6740	110	10800	230	11200	230	9320	180	9960	130	5880	100
13	7800	160	10300	250	11000	280	8370	110	9170	130	4740	100
14	8070	160	9980	200	10700	200	8420	140	9010	120	4330	110
15	8390	160	9870	170	9990	200	7600	110	8100	120	4390	110
16	8610	150	11300	190	9990	220	7000	110	8940	120	5870	120
17	9120	170	9630	140	9980	140	7630	110	10300	140	10200	130
18	9350	170	9770	180	9940	140	7560	110	11100	220	13100	130
19	---	170	11000	150	9960	150	8130	120	12000	260	11500	130
20	---	310	9640	150	9960	130	8880	110	12600	310	10500	200
21	---	290	5900	130	9950	140	9560	120	11400	290	6080	130
22	---	190	7980	130	9860	140	9990	220	10100	210	9480	130
23	---	170	8530	140	10200	190	9940	210	9520	130	9950	220
24	9230	190	7050	130	9990	180	10400	230	9690	130	6330	130
25	7180	150	5890	130	9630	160	10300	200	9590	120	4480	120
26	6070	140	5850	130	9690	160	9980	170	8290	80	3780	120
27	6520	130	4630	130	9690	220	9300	140	5700	70	2950	90
28	4710	130	5460	130	9360	140	9950	180	6690	70	2210	70
29	4120	120	18700	130	9100	140	9990	130	---	---	2230	70
30	7800	120	19300	190	11200	150	10000	120	---	---	4300	70
31	14100	170	---	---	12900	160	11600	120	---	---	8540	90
MONTH	14100	110	19300	130	14400	130	14400	110	14700	70	15500	70

02198920 SAVANNAH (FRONT) RIVER AT U.S. 17 AT PORT WENTWORTH, GA.--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15200	100	11200	150	9340	160	7180	120	2300	100	5870	100
2	16400	120	8470	150	9330	160	5680	120	5500	110	4250	90
3	10100	110	9530	150	9730	170	4890	120	6360	140	3530	80
4	5430	140	9510	160	9410	170	4740	120	8030	140	3080	70
5	3460	140	7310	160	8100	170	4600	130	7320	130	3140	70
6	2660	150	4540	150	8370	160	3760	130	7050	120	3270	80
7	1850	100	3280	140	8350	160	3910	130	8230	120	5160	80
8	2190	160	3080	140	7790	160	5270	130	9280	120	6380	90
9	2080	160	3900	140	7870	160	7680	100	11600	180	7360	100
10	2400	160	2500	130	9740	160	9570	90	12500	200	5650	80
11	2000	160	6410	140	15300	160	14400	90	13800	210	5290	80
12	2260	150	13300	150	17300	210	19900	110	15300	210	5320	90
13	3680	130	15600	160	17600	160	21800	130	14300	220	6270	100
14	4480	120	15100	170	18800	130	21700	140	13500	220	6490	130
15	4690	120	12900	130	17800	130	23400	200	13500	210	6500	150
16	7310	120	11400	120	17000	160	16700	200	12900	170	6280	120
17	3920	120	12400	120	15300	130	14100	130	11800	200	6550	100
18	2580	110	11500	150	14200	160	12800	120	11200	230	5410	100
19	1530	120	10200	150	13000	150	10300	120	10600	300	5150	120
20	1210	100	9670	140	11900	150	6830	110	10200	220	5020	120
21	1410	80	8290	140	9850	140	4820	110	9820	180	7040	120
22	520	90	7560	140	8930	130	3290	90	8640	140	6210	110
23	380	110	6410	140	8190	120	1670	90	8150	130	4680	110
24	2170	110	8570	140	6640	120	620	80	7750	130	5130	110
25	5750	120	9610	150	3900	100	510	80	5730	140	4880	80
26	9170	120	10800	150	2040	90	730	80	6190	180	720	80
27	11300	130	11100	150	1230	80	900	80	5590	140	1950	80
28	16200	200	15100	190	1760	90	2250	100	6800	100	2680	90
29	16600	220	14700	350	4870	100	4840	90	5940	90	3080	90
30	15100	200	10400	180	8910	110	5020	90	5930	90	3090	110
31	---	---	9870	160	---	---	2840	100	6540	90	---	---
MONTH	16600	80	15600	120	18800	80	23400	80	15300	90	7360	70
YEAR	23400	70										

02198977 SAVANNAH RIVER AT BROAD STREET AT SAVANNAH, GA.

LOCATION.--Lat 32°05'02", long 81°05'45", Chatham County, Hydrologic Unit 03060109, at downstream side of docking facility at SEPCO Riverside Power Plant, located on River Street at the foot of West Broad Street, 0.4 mi northwest of U.S. Custom House at Savannah (revised).

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3.46 ft below National Geodetic Vertical Datum of 1929, at low mean water, (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height recorded, 9.86 ft Mar. 9, 1989; minimum gage height recorded, -2.74 ft Apr. 7, 1989, but was lower during the day when the stage went below the recordable range of the gage.

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 9.86 ft, Mar. 9; minimum gage height recorded, -2.74 ft, Apr. 7, but was lower during the day when the stage went below the recordable range of the gage.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.55	1.26	7.94	1.79	6.69	.92	7.09	1.00	7.05	.48	6.71	1.75
2	8.04	1.34	7.12	1.10	6.51	.61	7.29	1.21	7.02	-0.35	7.38	1.90
3	7.96	1.34	7.39	1.36	6.65	.33	7.53	-1.14	7.46	-0.82	7.96	.80
4	7.75	1.07	7.71	1.23	6.74	.23	7.13	-1.22	7.62	-1.18	8.04	.11
5	8.03	1.80	7.39	.39	7.82	.44	8.02	-0.43	8.74	-0.57	8.44	-0.22
6	8.14	1.93	7.30	-0.14	8.00	.18	8.64	-0.02	8.88	-0.76	8.62	-0.86
7	8.31	2.21	7.13	-0.61	7.87	-0.26	8.16	-0.95	8.76	-1.29	9.15	-1.61
8	8.41	1.83	7.60	-0.48	7.87	-0.70	8.54	-0.76	8.36	-1.55	9.46	.07
9	8.51	1.48	7.79	-0.46	8.18	-0.81	8.55	-0.98	8.34	-1.22	9.86	.13
10	8.56	1.29	8.13	-0.28	8.42	-0.30	8.76	-0.08	8.15	-1.46	9.70	.28
11	8.19	.56	7.81	-0.32	8.30	-0.39	8.73	-0.36	8.18	-1.13	9.48	.10
12	8.04	.13	8.48	.92	8.89	.83	8.39	-0.78	7.51	-0.68	9.24	-0.[illegible]4
13	8.32	.81	8.29	.15	8.59	-0.30	7.89	-1.05	7.65	-0.10	8.53	.83
14	8.07	.69	7.97	.14	8.16	-0.20	8.33	.33	7.50	-0.06	8.32	.79
15	7.96	.78	8.04	.28	7.64	-0.30	8.04	-0.39	7.29	-0.42	7.60	.39
16	7.76	.92	8.08	.29	7.82	.06	7.67	-0.62	7.50	.09	7.[illegible]2	.72
17	7.77	1.09	7.57	-0.62	8.16	-0.84	8.08	-0.25	7.99	.88	7.79	.23
18	7.94	.20	8.17	.37	7.75	-0.75	8.00	-0.94	8.52	1.03	7.68	.07
19	7.88	[illegible]7	8.55	-0.63	7.93	-1.19	7.81	-1.16	8.44	.56	7.86	-0.09
20	8.[illegible]1	1.03	8.61	-1.55	8.12	-1.10	8.05	-1.40	8.50	.23	8.28	.44
21	8.62	-0.55	8.11	-1.97	8.26	-1.25	8.28	-1.26	8.23	-0.30	7.83	-0.60
22	8.42	-0.63	8.79	-1.30	8.26	-1.47	8.60	.81	7.80	-0.31	8.78	-0.83
23	9.03	-1.07	9.19	-0.54	8.82	-0.45	8.50	.88	6.58	-0.96	8.70	1.38
24	9.00	-0.71	8.97	-0.68	8.39	-0.62	8.46	.45	7.23	-2.08	8.04	-0.04
25	9.01	-1.66	8.58	-0.61	7.93	-0.72	7.84	-0.10	7.41	.22	7.88	-0.23
26	8.95	-1.01	8.48	-0.48	8.12	.10	7.43	.09	7.29	-0.21	7.74	.18
27	9.08	-0.68	8.11	-0.05	8.13	.42	6.87	.21	6.62	.74	7.36	.12
28	8.71	-0.27	6.75	-0.08	7.37	-0.42	7.25	1.01	6.58	.46	7.19	.47
29	8.51	-0.01	7.67	.01	7.14	.37	6.88	.79	---	---	7.13	.55
30	8.65	1.38	7.16	.94	7.15	1.18	6.91	.75	---	---	7.06	.43
31	8.57	2.16	---	---	7.23	1.06	6.21	.75	---	---	6.93	-0.43
MONTH	9.08	-1.66	9.19	-1.97	8.89	-1.47	8.76	-1.40	8.88	-2.08	9.86	-1.61

02198977 SAVANNAH RIVER AT BROAD STREET AT SAVANNAH, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.22	-0.44	8.35	-0.81	8.76	-1.72	9.40	-0.10	8.39	-1.00	8.25	.47
2	7.68	-0.66	8.35	-1.77	8.77	-1.83	9.23	-0.58	8.55	-0.59	7.89	.49
3	8.03	-1.14	9.01	-1.61	8.89	-1.85	8.83	-0.75	8.60	.20	8.08	04
4	8.45	-1.84	9.49	-0.94	8.88	-1.63	8.64	-0.59	8.10	.37	8.12	1.80
5	8.76	-2.06	9.54	-1.36	8.46	-1.38	8.40	-0.44	7.41	.01	7.68	.91
6	8.63	---	9.03	-1.61	8.59	-1.13	7.64	-0.50	7.45	-0.08	7.89	1.88
7	8.06	---	8.73	-1.80	8.08	-0.60	7.17	-0.85	7.39	.59	8.14	2.35
8	8.30	-1.97	8.71	-0.72	7.97	-0.51	6.94	-0.76	7.64	.76	8.16	2.50
9	8.40	-1.54	8.29	-0.41	7.95	-0.52	6.98	-0.15	7.88	2.00	8.02	1.97
10	8.11	-0.39	8.12	-0.16	6.98	-0.53	7.05	.37	7.70	1.53	8.17	1.77
11	8.21	.43	7.42	21	6.95	04	7.09	.23	7.50	1.43	8.35	1.13
12	8.18	1.20	7.70	.73	7.45	.64	7.25	.58	7.79	1.22	8.73	.71
13	7.92	1.02	7.39	.57	7.18	.09	7.10	-0.26	8.00	.90	9.04	62
14	7.51	.90	7.42	87	7.40	-0.16	7.46	-0.07	8.43	.50	9.03	-0.18
15	7.72	.52	7.47	29	7.47	.01	8.28	.49	8.59	00	9.08	-0.73
16	7.79	.42	7.61	.14	7.59	.16	7.85	-0.25	8.74	-0.67	8.86	-1.03
17	7.60	.10	7.93	23	7.82	-0.55	8.26	-0.71	8.73	-0.91	8.92	-1.04
18	7.84	-0.25	8.14	08	8.28	-0.33	8.78	-0.76	8.65	-0.83	9.10	-0.95
19	7.90	-0.39	8.34	.23	8.44	-0.44	8.73	-0.62	8.57	-1.14	8.96	.19
20	8.39	-0.35	8.40	.13	8.48	-0.40	8.83	-0.84	8.60	-0.78	8.53	.05
21	8.86	.63	8.30	-0.14	8.29	-0.64	8.55	-0.79	8.54	-0.47	8.68	56
22	8.55	.50	8.27	-0.08	8.15	-0.86	8.39	-0.83	8.34	-0.64	8.03	.39
23	8.03	-0.27	7.37	-0.21	8.09	-0.84	8.30	-1.01	8.06	-0.65	8.03	.25
24	7.84	-0.23	7.78	-0.89	8.03	-0.97	8.24	-1.15	7.95	-0.75	8.44	1.39
25	7.46	-0.12	7.92	-0.24	8.14	-0.94	8.41	-0.94	8.07	-0.06	8.68	1.37
26	7.63	-0.05	7.83	-0.29	8.37	0.40	8.54	-0.22	8.63	94	8.22	32
27	7.64	.41	7.65	-0.66	8.34	-0.67	8.34	-0.30	8.64	40	9.16	64
28	7.53	.65	8.64	.13	8.58	-0.90	8.23	-0.90	8.60	41	8.88	1.84
29	7.83	.49	8.60	.70	9.02	-0.95	8.60	-0.95	8.71	-0.11	8.65	1.02
30	7.83	-0.22	8.55	-0.62	9.63	.04	8.83	-0.62	8.44	.13	8.35	62
31	---	---	8.65	-1.18	---	---	8.53	-1.05	8.37	08	---	---
MONTH	8.86	---	9.54	-1.80	9.63	-1.85	9.40	-1.15	8.74	-1.14	9.16	-1.04
YEAR	9.86	---										

021989785 LUCKNOW CANAL NEAR LIMEHOUSE, S.C.

LOCATION.–Lat 32°08'32", long 81°05'54", Jasper County, S.C., Hydrologic Unit 03060109, at central gage at the south end of Lucknow Canal on one-way service road to the southern part of the Savannah National Wildlife Refuge accessed from U.S. Highway 17, 2 mi southeast of Refuge Headquarters, and 5.2 mi south-southwest of Limehouse, S.C.

DRAINAGE AREA.–Unknown.

PERIOD OF RECORD.–October 1986 to current year.

INSTRUMENTATION.–Water-quality monitor. Specific Conductance recorded every 15 minutes.

EXTREMES FOR PERIOD OF DAILY RECORD.–

SPECIFIC CONDUCTANCE: Maximum recorded, 24,700 microsiemens June 27, 1988; minimum recorded, 200 microsiemens Jan. 31, Feb. 2, 3, 4, 1989.

EXTREMES FOR CURRENT YEAR.–

SPECIFIC CONDUCTANCE: Maximum recorded, 17,500 microsiemens Mar. 5; minimum recorded, 200 microsiemens Jan. 31, Feb. 2, 3, 4.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	9700	2400	8800	6800	5300	4400	2600	2100	7300	300	10300	1900
2	9300	2400	9800	8600	6100	4900	2500	1800	9600	200	12600	1900
3	10000	8200	9200	8500	6800	5800	2400	1500	11000	200	13400	2100
4	9200	7200	9600	8800	7400	5800	1700	1500	12500	200	17300	1900
5	9500	7400	10300	8400	8500	7000	2000	1600	15000	600	17500	2900
6	9900	7500	10500	9300	8900	7900	2300	1800	14500	500	15000	4300
7	9900	6800	10500	9700	9300	7800	2100	1800	14600	3700	13500	3700
8	9400	7800	10500	9900	9700	8100	2400	1700	13400	4600	11000	2700
9	9600	8400	11300	9700	10000	8700	2300	1600	12400	3800	11600	3400
10	9800	8500	11200	10000	9700	9000	2300	1400	12000	3900	12200	3900
11	9600	8200	11100	10300	9700	8500	2400	1600	11500	3400	11800	5600
12	9400	8000	10900	9000	9200	7900	2200	1300	10300	2700	10600	4900
13	10000	7300	10100	9200	9000	8000	1900	900	10500	2500	9200	4800
14	8800	7800	10400	9700	9600	8800	1200	900	10100	1700	8700	5100
15	9000	8300	10600	10000	10000	9300	1400	900	8200	1400	10000	4700
16	8900	8100	10600	6200	9900	4500	1200	1000	9900	1100	8700	5600
17	9000	8100	7200	5500	7100	5400	1200	1000	11500	800	8300	5800
18	9300	8100	6500	5100	6600	5400	1400	1100	12300	900	6700	4900
19	9400	8200	5400	3300	5700	5200	1400	1100	13400	800	5300	4400
20	9100	6900	4500	2800	5300	4700	1500	1100	13100	800	5600	4000
21	8600	7100	3800	2600	4900	4100	1300	1100	12100	1100	5400	3900
22	8400	7300	3600	1700	4300	3900	1200	1000	10600	1200	4900	3400
23	9300	8100	3300	1900	4400	3400	1700	900	8800	1100	4400	3100
24	10000	8600	3100	2300	3600	2900	10200	800	8700	1100	4500	3000
25	10200	8600	3700	2500	3200	2500	10600	800	13100	1500	4100	3200
26	10000	9200	4100	3200	3100	2600	9000	600	13500	1600	3500	2800
27	10100	9100	4400	3800	3000	2600	8600	600	9600	1600	2900	2600
28	10200	9200	4900	4000	2900	2300	9600	500	9600	1500	2700	2400
29	10300	9400	5100	4500	2700	2300	8400	500	—	—	2500	2200
30	10300	8400	5200	4400	2600	2400	10000	300	—	—	2700	1900
31	9900	7200	—	—	2500	2300	7200	200	—	—	2400	1300
MONTH	10300	2400	11300	1700	10000	2300	10600	200	15000	200	17500	1300

021989785 LUCKNOW CANAL NEAR LIMEHOUSE, S.C.–Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2800	1600	4400	2400	4600	2500	2600	1300	—	—	6400	2300
2	4100	2200	4000	1700	4400	2200	2400	1300	—	—	7700	2700
3	3800	2600	4900	1600	4100	2500	2400	1200	8300	500	7500	2400
4	3600	2500	7000	2600	4200	2200	1900	1100	9100	700	5500	2100
5	2900	2100	6700	3400	3800	2000	2200	1400	9400	500	5800	2200
6	2500	1700	6700	2100	3400	1800	2200	1700	8600	700	6900	2000
7	2600	1600	4700	2500	2900	1800	2100	1600	10900	900	9000	1500
8	2600	1800	4700	2000	2900	1500	2100	1500	12600	1100	11200	1900
9	2500	1800	5100	2200	2400	1400	2100	1400	12100	1200	11400	1700
10	2500	1400	4800	2200	2200	1400	2300	1600	14600	1300	12400	1400
11	2200	1600	4100	2000	2100	1300	2200	1200	14400	1700	13200	1500
12	2600	700	4400	2100	3300	1400	1900	1200	14700	1700	12800	1300
13	1200	400	4800	2200	3300	1200	1900	1400	16200	1900	11500	1500
14	1300	400	4900	2900	3500	1500	2300	1400	15200	2100	11300	1700
15	1200	500	4900	2900	4500	1500	6900	1300	15200	1800	15100	1900
16	1200	600	4700	2700	5400	1800	6400	900	14800	2600	14900	10700
17	1500	700	4700	2500	4700	600	4700	800	14100	2200	13400	9000
18	1400	900	5200	3100	4500	2000	—	—	13100	2100	12600	8100
19	1500	900	5200	3500	4500	1900	—	—	12500	2100	8600	6100
20	1600	900	5100	3400	4700	2300	—	—	12800	2900	8500	6200
21	1700	1000	4800	2200	4800	1900	—	—	12300	3300	7300	4300
22	2200	1100	5200	3200	4500	2100	—	—	11400	3000	5100	3200
23	1900	900	4900	2600	3800	2100	—	—	9400	2400	4500	1800
24	1900	900	4700	2000	3400	1900	—	—	9900	1900	3800	1200
25	1900	1000	3600	2400	3000	1600	—	—	11000	2000	4200	1100
26	2300	1100	3600	3000	2600	1500	—	—	12500	2400	3000	1000
27	2400	1300	3700	2800	2500	1300	—	—	13500	2900	5100	1100
28	3500	1600	4100	2600	2000	1100	—	—	11700	2400	6200	1300
29	5700	1900	5300	2800	2000	1100	—	—	7000	2400	6500	1300
30	4700	2600	5700	3100	2300	1300	—		6900	2500	5500	1300
31	—	—	5400	2900	—	—	—	—	5600	2300	—	—
MONTH	5700	400	7000	1600	5400	600	6900	800	16200	500	15100	1000
YEAR	17500	200										

02198979 LITTLE BACK RIVER NEAR LIMEHOUSE, S.C.

LOCATION.--Lat 32°11'05", long 81°07'02", Jasper County, S.C., Hydrologic Unit 03060109, at the end of the fishing pier at north control gate of Lucknow Canal on the service road to the northern part of the Savannah National Wildlife Refuge accessed from U.S. Highway 17, 1.25 mi north of Refuge Headquarters, and 3.4 mi southwest of Limehouse, S.C.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--June 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3.39 ft below National Geodetic Vertical Datum of 1929, at mean low water (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height recorded, 9.82 ft, Mar. 10, 1989; minimum gage height recorded, -1.79 ft, Apr. 7, 1989, but was lower during the day when the stage went below the recordable range of the gage.

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 9.73 ft, Aug. 28; minimum gage height recorded, -1.79 ft, Apr. 7, but was lower during the day when the stage went below the recordable range of the gage.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	9.00	1.62	8.51	2.08	7.51	1.16	7.76	1.20	7.80	.65	7.48	1.95
2	8.63	1.54	7.91	1.31	7.33	.82	7.96	1.38	7.76	.16	8.05	2.09
3	8.57	1.59	8.12	1.60	7.42	.61	8.17	.02	8.09	-0.12	8.51	1.05
4	8.37	1.31	8.35	1.56	7.58	.46	7.87	-1.03	8.23	-0.83	8.59	1.01
5	8.57	2.04	8.60	1.02	8.43	1.40	8.52	-0.11	9.05	-0.13	8.90	.30
6	8.70	2.23	8.01	.53	8.57	.72	8.99	.51	9.12	-0.07	9.04	.05
7	8.84	2.65	7.88	-0.30	8.45	.10	8.64	-0.51	9.04	-0.19	9.33	-0.27
8	8.91	2.46	8.24	-0.12	8.45	-0.21	8.92	-0.13	8.69	-0.59	9.54	1.37
9	8.98	2.15	8.39	-0.04	8.66	-0.26	8.91	-0.28	8.65	-0.43	9.79	1.67
10	9.02	1.98	8.65	.14	8.87	.21	9.07	.56	8.70	-0.66	9.82	1.78
11	8.72	1.17	8.40	.09	8.79	.13	9.04	.38	8.58	-0.55	9.75	1.36
12	8.54	.71	8.93	1.20	9.21	1.14	8.79	.14	8.11	-0.26	9.44	.60
13	8.79	1.19	8.79	.83	9.01	.58	8.40	-0.48	8.23	.18	8.93	1.22
14	8.61	1.20	8.53	.67	8.68	.41	8.72	.76	8.14	.15	8.77	1.10
15	8.50	1.12	8.63	.62	8.26	8.54	-0.05	7.93	-0.05	8.24	.62	
16	8.41	1.16	8.66	.75	8.39	.48	8.27	-0.26	8.12	-0.23	8.03	.95
17	8.39	1.35	8.25	-0.24	8.67	-0.44	8.56	.20	8.49	.90	8.37	.82
18	8.53	1.51	8.66	.66	8.34	-0.20	8.52	.02	8.86	1.24	8.31	.44
19	8.46	.97	9.00	.56	8.49	-0.34	8.35	-0.74	8.81	.96	8.39	.24
20	9.22	1.79	9.06	-0.02	8.55	-0.72	8.52	-0.87	8.85	.74	8.76	.92
21	9.10	1.25	8.63	-1.23	8.68	-0.75	8.68	-0.74	8.71	.37	8.40	-0.18
22	8.90	.17	9.15	-0.76	8.67	-0.84	8.95	1.03	8.32	.12	9.13	-0.38
23	9.32	-0.21	9.42	.20	9.09	.08	8.88	1.50	7.37	-0.62	9.06	1.92
24	9.34	.32	9.30	-0.15	8.76	-0.09	8.87	1.05	7.97	-1.33	8.63	.30
25	9.29	-0.66	9.03	-0.04	8.43	-0.26	8.36	.37	8.11	.58	8.45	.18
26	9.27	-0.21	8.97	-0.03	8.60	.35	8.08	.44	8.13	.27	8.35	.57
27	9.39	-0.01	8.67	.44	8.59	.74	7.71	.48	7.45	1.02	8.25	.47
28	9.12	.32	7.77	.26	8.04	.00	7.94	1.20	7.31	.71	8.03	.80
29	8.90	.34	8.33	.29	7.84	.54	7.61	1.00	—	—	7.76	.87
30	9.09	1.62	7.93	1.20	7.86	1.35	7.64	.99	—	—	7.71	.78
31	9.03	2.51	—	—	7.92	1.26	6.99	.93	—	—	7.55	-0.12
MONTH	9.39	-0.66	9.42	-1.23	9.21	-0.84	9.07	-1.03	9.12	-1.33	9.82	-0.38

SAVANNAH RIVER BASIN

02198979 LITTLE BACK RIVER NEAR LIMEHOUSE, S.C.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMEER	
1	7.96	-0.11	8.80	-0.33	9.04	-1.12	9.55	.38	8.81	-0.54	8.73	1.01
2	8.32	-0.09	8.71	-1.26	9.06	-1.22	9.42	-0.02	8.94	.01	8.46	1.07
3	8.60	-0.59	9.23	-0.95	9.15	-1.22	9.17	-0.26	8.99	.76	8.63	.62
4	8.89	-1.01	9.58	-0.18	9.16	-1.06	9.02	-0.20	8.79	.75	8.60	2.19
5	9.06	-1.06	9.63	-0.40	8.83	-0.87	8.83	-0.04	8.57	.53	8.31	1.34
6	8.94	-1.77	9.26	-0.80	8.94	-0.64	8.69	-0.09	8.12	.30	8.45	2.05
7	8.52	—	9.06	-1.06	8.94	-0.21	8.12	-0.31	8.16	.85	8.66	2.50
8	8.71	-1.20	9.01	-0.19	8.57	-0.04	7.84	-0.37	8.25	.99	8.66	2.68
9	8.70	-0.94	9.06	.04	8.50	-0.24	7.53	.24	8.42	2.20	8.57	2.18
10	8.80	.20	8.70	.06	7.65	-0.22	7.75	.74	8.28	1.68	8.71	1.99
11	8.62	.86	7.98	.38	7.64	.25	7.77	.57	8.14	1.54	8.82	1.56
12	8.67	1.53	3.29	1.00	8.06	.88	7.83	.81	8.35	1.34	9.11	1.09
13	8.45	1.35	8.05	.84	7.83	.32	7.79	.04	8.45	1.04	9.33	1.13
14	8.19	1.24	8.10	1.11	8.00	.07	8.06	.17	8.85	.77	9.30	.86
15	8.35	.97	8.12	.56	8.08	.26	8.75	.50	8.98	.40	9.34	.35
16	8.44	.81	8.20	.46	8.19	.46	8.35	.06	9.05	-0.14	9.18	.39
17	8.27	.52	8.46	.47	8.38	-0.25	8.76	-0.33	9.04	-0.21	9.21	.18
18	8.46	.24	8.65	.39	8.65	.03	9.15	-0.23	8.99	-0.14	9.32	.14
19	8.48	.03	8.78	.48	8.81	-0.10	9.11	-0.12	8.91	.05	9.21	.93
20	8.83	.15	8.85	.39	8.90	-0.03	9.20	-0.28	8.96	.10	8.95	.52
21	9.24	1.09	8.76	.34	8.68	-0.25	9.06	.15	8.92	.32	9.11	.84
22	9.00	.93	8.68	.34	8.64	-0.28	8.98	.03	8.74	-0.02	8.64	.90
23	8.57	.11	8.25	.14	8.64	-0.30	8.86	.02	8.53	-0.20	8.60	.60
24	8.40	.22	8.30	-0.52	8.63	-0.35	8.74	-0.47	8.45	-0.35	8.85	1.67
25	8.35	.24	8.30	.06	8.68	-0.33	8.89	-0.43	8.60	.24	9.15	2.31
26	8.07	.21	8.44	.09	8.84	.13	8.99	.15	9.06	1.22	8.75	.92
27	8.25	.67	8.23	-0.29	8.82	-0.23	8.82	.05	9.06	.94	9.45	1.38
28	8.09	.89	9.01	.41	8.98	-0.49	8.70	-0.54	9.02	1.01	9.25	2.83
29	8.40	.73	9.01	1.07	9.27	-0.56	9.03	-0.54	9.05	.52	9.06	1.90
30	8.42	.08	8.94	-0.20	9.73	.64	9.17	-0.19	8.86	.56	8.80	1.30
31	—	—	8.97	-0.71	—	—	8.95	-0.59	8.78	.63	—	—
MONTH	9.24	—	9.63	-1.26	9.73	-1.22	9.55	-0.59	9.06	-0.54	9.45	.14
YEAR	9.82	—										

02198979 LITTLE BACK RIVER NEAR LIMEHOUSE, S.C.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1986 to current year.
INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded every 15 minutes.
EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 18,800 microsiemens June 9, 1987; minimum recorded, 50 microsiemens Oct. 15, 1987.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 11,200 microsiemens Feb. 6; minimum, 80 microsiemens July 27.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1950	810	1920	210	970	240	230	170	170	140	320	130
2	1790	590	1860	260	1060	230	200	160	170	140	160	120
3	1670	380	1690	290	1160	240	490	160	340	160	230	120
4	1620	330	1690	290	1210	240	410	190	1110	230	300	160
5	1520	310	2020	330	730	230	520	190	11100	400	390	170
6	1480	300	2070	380	1260	320	2170	280	11200	1110	590	210
7	1350	300	2680	410	1250	430	900	420	9900	1520	5550	230
8	1260	290	2670	450	1370	440	2760	430	6980	1330	5060	380
9	1400	300	2460	470	1710	550	2020	470	5300	1120	5000	390
10	1640	290	2570	550	4530	670	4380	590	5160	990	8110	400
11	1790	340	2170	520	2570	790	3510	670	3020	720	7410	340
12	1950	360	2470	460	8780	700	1670	640	1130	410	1840	280
13	1860	420	2420	540	3400	770	1090	410	770	320	480	200
14	1920	360	2160	440	1820	700	1060	410	470	250	450	190
15	2040	380	2250	390	2030	610	550	340	380	210	500	190
16	1930	350	2160	260	1830	370	500	290	390	200	550	240
17	2000	320	400	260	1180	330	500	210	530	200	500	300
18	2010	290	570	250	720	360	380	220	1070	250	380	260
19	2060	290	930	280	920	310	370	220	1250	400	360	250
20	1300	410	1110	400	1080	340	610	230	2120	500	450	280
21	2020	550	670	380	1860	400	1150	320	1690	620	380	250
22	1930	680	990	320	3400	490	1760	410	910	540	760	260
23	2220	730	1080	330	7900	590	780	370	780	320	790	290
24	2330	780	670	430	3340	770	1160	380	580	220	450	290
25	2310	790	780	440	1700	630	730	400	510	220	360	230
26	2370	720	970	430	1350	520	580	330	450	160	280	170
27	2210	620	1040	390	1060	470	450	240	350	140	200	150
28	2110	620	1240	290	640	370	330	190	380	130	180	120
29	2150	420	1250	250	590	240	220	160	—	—	150	100
30	1320	250	1050	240	280	200	200	140	—	—	140	100
31	310	210	—	—	220	170	170	140	—	—	160	110
MONTH	2370	210	2680	210	8780	170	4380	140	11200	130	8110	100

02198979 LITTLE BACK RIVER NEAR LIMEHOUSE, S.C.--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	170	120	430	190	1460	240	540	180	200	120	350	230
2	150	130	670	210	1400	410	560	210	530	130	320	180
3	240	150	1090	200	1310	400	520	220	690	170	330	140
4	550	210	1190	310	1240	410	460	220	980	220	170	130
5	520	240	1030	390	1120	430	400	210	320	190	140	120
6	470	230	910	360	960	340	330	200	270	160	140	110
7	380	230	610	300	840	290	250	180	190	150	140	120
8	420	210	540	260	510	250	240	170	190	150	140	120
9	370	200	410	220	390	230	230	150	180	150	150	120
10	340	190	280	200	280	200	240	130	200	140	160	120
11	240	180	250	180	230	170	220	120	210	150	150	120
12	210	170	210	160	250	170	210	130	230	170	170	130
13	180	150	190	160	240	170	220	140	350	180	3400	150
14	160	130	180	150	230	180	230	160	690	220	2690	320
15	170	100	190	160	250	180	560	160	3650	260	4850	380
16	160	120	190	140	390	200	460	270	7830	470	3970	450
17	140	110	220	100	490	270	450	200	9980	610	3950	450
18	180	120	220	140	700	310	1670	190	7840	730	5660	460
19	150	120	240	190	990	340	750	220	7220	960	4490	480
20	150	120	260	170	950	350	660	210	6060	970	4320	420
21	140	100	300	190	970	350	570	210	3340	840	3060	300
22	120	90	300	170	710	310	450	200	2100	620	2830	350
23	150	110	240	110	580	280	360	160	1390	430	2060	290
24	160	120	240	160	520	230	260	110	670	320	1290	290
25	160	120	290	130	280	190	180	100	520	320	920	250
26	160	110	300	210	200	150	140	100	560	250	1370	280
27	160	100	280	200	190	140	130	80	470	240	1100	180
28	170	140	1350	220	230	140	140	100	280	190	430	130
29	200	100	1280	310	300	150	160	100	540	210	220	120
30	210	160	1320	450	470	160	200	110	520	270	480	140
31	—	—	1730	460	—	—	180	120	500	240	—	—
MONTH	550	90	1730	100	1460	140	1670	80	9980	120	5660	110
YEAR	11200	80										

02198980 SAVANNAH RIVER AT FORT PULASKI, GA.

LOCATION.--Lat 32°02'02", long 80°54'12", Chatham County, Hydrologic Unit 03060109, at downstream side of Coast Guard pier at Coast Guard station on Cockspur Island, 1 mi upstream from the mouth, 0.7 mi west of Fort Pulaski (revised).

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3.02 ft below National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height recorded, 9.26 ft, Mar. 9, 1989; minimum gage height recorded, -3.73 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 9.26 ft, Mar. 9; minimum gage height recorded, -3.73 ft, Apr. 7.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.72	1.13	7.15	1.71	5.74	.36	6.25	.86	6.06	.31	5.74	1.47
2	7.22	1.21	6.34	1.03	5.54	.59	6.37	.75	6.01	-0.43	6.52	1.81
3	7.14	1.28	6.47	1.35	5.76	.26	6.65	-1.25	6.47	-1.20	7.23	.61
4	6.91	1.09	6.85	1.16	5.91	.28	6.10	-0.88	6.70	-1.17	7.07	-0.26
5	7.25	1.81	7.09	.30	7.06	.42	7.35	-0.09	8.05	-0.66	7.55	-0.72
6	7.42	1.92	6.35	-0.57	7.20	-0.23	7.89	-0.32	8.23	-0.93	7.76	-1.18
7	7.56	1.92	6.15	-0.60	7.03	-0.34	7.31	-1.37	8.06	-1.66	8.52	-1.81
8	7.60	1.66	6.66	-0.54	7.05	-0.66	7.77	-0.87	7.61	-1.72	8.80	-0.45
9	7.70	1.26	6.89	-0.49	7.43	-0.78	7.79	-1.11	7.53	-1.38	9.26	-0.41
10	7.77	.94	7.37	-0.30	7.72	-0.35	8.01	-0.43	7.37	-1.46	9.10	-0.32
11	7.41	.49	7.03	-0.35	7.59	-0.38	7.96	-0.91	7.15	-1.16	8.54	-0.31
12	7.19	.09	7.80	.77	8.25	.56	7.56	-1.03	6.54	-0.93	8.07	-0.20
13	7.57	.75	7.55	.03	7.96	-0.47	6.85	-1.22	6.70	-0.29	7.66	.49
14	7.29	.61	7.12	.09	7.37	-0.34	7.44	.19	6.47	-0.26	7.46	.71
15	7.10	.68	7.15	.42	6.70	-0.41	7.12	-0.61	6.19	-0.54	6.61	.22
16	6.99	.88	7.23	.41	6.95	-0.05	6.70	-0.79	6.42	.00	6.26	.57
17	6.97	1.08	6.58	-0.47	7.36	-0.87	7.08	-0.30	7.14	.68	6.79	.30
18	7.10	1.18	7.31	.32	6.81	-0.99	7.07	-1.22	7.76	.90	6.66	-0.10
19	7.07	.71	7.79	-0.40	7.08	-1.20	6.79	-1.50	7.65	.46	6.87	.10
20	8.16	1.17	7.89	-1.75	7.25	-1.29	7.15	-1.44	7.70	.05	7.40	.52
21	7.91	-0.53	7.31	-1.52	7.47	-1.25	7.47	-1.29	7.36	-0.49	6.82	-0.49
22	7.72	-0.87	8.10	-1.13	7.46	-1.50	7.85	.58	6.84	-0.46	8.00	-0.69
23	8.42	-0.89	8.71	-0.51	8.10	-0.55	7.78	.68	5.71	-1.00	7.93	1.40
24	8.39	-0.69	8.33	-0.45	7.56	-0.71	7.70	.18	6.19	-1.76	7.07	.02
25	8.47	-1.70	7.90	-0.65	7.05	-0.79	6.89	-0.30	6.44	.07	6.90	-0.10
26	8.33	-0.94	7.71	-0.31	7.29	-0.07	6.44	-0.06	5.83	-0.22	6.69	.22
27	8.46	-0.55	7.24	.06	7.37	.26	5.95	.07	5.48	.55	6.26	.13
28	8.06	-0.11	5.26	-0.30	6.37	-0.51	6.31	.92	5.58	.32	6.09	.43
29	7.64	.09	6.68	.17	6.07	.34	5.98	.66	—	—	6.12	.53
30	7.88	1.42	6.35	.99	6.16	1.16	6.00	.68	—	—	6.08	.37
31	7.89	2.08	—	—	6.14	1.05	5.28	.69	—	—	5.93	-0.45
MONTH	8.47	-1.70	8.71	-1.75	8.25	-1.50	8.01	-1.50	8.23	-1.76	9.26	-1.81

02198980 SAVANNAH RIVER AT FORT PULASKI, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.08	-0.26	7.39	-0.72	7.88	-1.51	8.64	-0.04	7.49	-1.19	7.33	.30
2	6.74	-0.62	7.48	-1.55	7.95	-1.71	8.47	-0.48	7.68	-0.70	6.93	.27
3	7.15	-1.16	8.34	-1.48	8.13	-1.71	8.05	-0.66	7.74	.00	7.27	-0.12
4	7.64	-1.84	8.75	-0.97	8.10	-1.54	7.86	-0.56	7.18	.21	7.33	1.48
5	7.96	-2.37	8.93	-1.54	7.66	-1.33	7.61	-0.42	6.46	-0.13	6.73	.80
6	7.89	-2.72	8.35	-1.51	7.82	-1.04	6.56	-0.43	6.51	-0.20	7.05	1.74
7	7.11	-3.73	7.97	-1.60	7.23	-0.47	6.04	-0.63	6.46	.49	7.35	2.14
8	7.51	-2.08	7.90	-0.61	7.10	-0.42	5.93	-1.01	6.75	.71	7.31	2.12
9	7.67	-1.48	7.26	-0.32	6.86	-0.50	5.86	-0.04	7.07	1.81	7.19	1.82
10	7.39	-0.24	6.80	-0.36	5.92	-0.46	6.06	.28	6.78	1.51	7.29	1.52
11	7.39	.51	6.56	.20	5.92	.08	6.09	.26	6.60	1.38	7.43	.76
12	7.27	1.18	6.65	.65	6.47	.64	6.24	.50	6.84	1.13	7.87	.41
13	6.98	.98	6.32	.57	6.20	.15	6.03	-0.02	7.05	.74	8.27	.39
14	6.45	.86	6.30	.74	6.30	-0.16	6.52	-0.06	7.60	.25	8.30	-0.48
15	6.69	.51	6.45	.13	6.39	-0.05	7.47	.44	7.77	-0.19	8.33	-1.01
16	6.67	.35	6.62	.28	6.59	.14	7.00	-0.12	7.97	-0.76	8.01	-1.35
17	6.48	-0.06	6.99	.19	6.89	-0.45	7.31	-0.64	7.98	-1.07	8.08	-1.30
18	6.80	-0.05	7.22	.16	7.35	-0.67	7.97	-0.64	7.86	-1.05	8.32	-1.12
19	6.86	-0.36	7.44	.27	7.62	-0.81	7.97	-0.67	7.76	-1.26	8.19	.06
20	7.52	-0.30	7.52	.14	7.61	-0.35	8.05	-0.80	7.76	-1.08	7.63	-0.05
21	8.03	.67	7.50	-0.18	7.32	-0.56	7.66	-0.73	7.70	-0.65	7.97	.53
22	7.64	.47	7.32	-0.08	7.25	-0.76	7.47	-0.82	7.43	-0.75	6.85	.48
23	7.04	-0.20	6.44	-0.10	7.18	-0.71	7.27	-1.01	7.07	-0.73	7.05	.20
24	6.87	-0.08	6.83	-0.79	6.87	-0.83	7.23	-1.05	6.96	-0.88	7.65	1.47
25	6.46	-0.02	6.94	-0.23	7.13	-0.78	7.39	-0.84	7.18	-0.18	7.79	1.34
26	6.63	.03	6.69	-0.12	7.39	-0.27	7.57	-0.20	7.81	.76	7.25	.36
27	6.48	.44	6.65	-0.47	7.39	-0.62	7.32	-0.24	7.80	.25	8.31	.48
28	6.61	.59	7.77	.13	7.65	-0.81	7.21	-0.76	7.72	.13	7.99	1.50
29	6.90	.51	7.78	.74	8.26	-0.85	7.66	-0.77	7.86	-0.16	7.70	.67
30	6.79	-0.12	7.67	-0.54	8.91	.51	7.95	-0.52	7.56	-0.02	7.36	.42
31	—	—	7.81	-1.08	—	—	7.60	-0.92	7.51	.01	—	—
MONTH	8.03	-3.73	8.93	-1.60	8.91	-1.71	8.64	-1.05	7.98	-1.26	8.33	-1.35
YEAR	9.26	-3.73										

02178500 LAKE BURTON NEAR CLAYTON, GA.

LOCATION.--Lat 34 47'37", long 83 32'26", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 5.5 mi downstream from bridge on U.S. Highway 76, 10 mi southwest of Clayton, Ga.

DRAINAGE AREA.--115 mi^2.

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Nonrecording gage. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Lake is formed by concrete gravity dam. Spillway (crest elevation, 1,860.0 ft) is equipped with eight gates 22 ft wide by 6.6 ft high. Dam completed in 1919. Total capacity at elevation 1,866.6 ft, top of gates, is 108,000 acre-ft, of which 106,000 acre-ft is usable storage. Lake is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1865.0	103000	-	-
Oct. 31................	1865.0	103000	0	0
Nov. 30................	1861.5	93900	-9100	-153
Dec. 31................	1858.1	85200	-8700	-141
CAL YR 1988	-	-	+1200	+2
Jan. 31................	1858.1	85200	0	0
Feb. 28................	1860.6	91600	+6400	+115
Mar. 31................	1862.4	96200	+4600	+75
Apr. 30................	1865.2	104000	+7800	+131
May 31................	1865.1	104000	0	0
June 30................	1865.7	105000	+1000	+17
July 31................	1865.0	103000	-2000	-33
Aug. 31................	1865.1	104000	+1000	+16
Sept. 30................	1865.7	105000	+1000	+17
WTR YR 1989	-	-	+2000	+3

02179500 MATHIS RESERVOIR NEAR LAKEMONT, GA.

LOCATION.--Lat 34 47'03", long 83 24'57", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 1 mi upstream from bridge on U.S. Highway 23, 1.8 mi south of Lakemont, Ga.

DRAINAGE AREA.--151 mi^2.

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Nonrecording gage. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company.)

REMARKS.--Reservoir is formed by concrete slab and buttress dam. Spillway (crest elevation, 1,682.75 ft) is equipped with 16 gates 15.8 ft wide by 6.85 ft high. Dam completed in 1915. Total capacity at elevation 1,689.6 ft, top of gates, is 31,200 acre-ft, of which 23,000 acre-ft is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1687.7	29700	-	-
Oct. 31................	1687.2	29300	-400	-7
Nov. 30................	1688.0	29900	+600	+10
Dec. 31................	1688.1	30000	+100	+2
CAL YR 1988	-	-	+300	0
Jan. 31................	1687.9	29800	-200	-3
Feb. 28................	1688.1	30000	+200	+4
Mar. 31................	1687.7	29700	-300	-5
Apr. 30................	1687.9	29800	+100	+2
May 31................	1687.7	29700	-100	-2
June 30................	1687.7	29700	0	0
July 31................	1687.7	29700	0	0
Aug. 31................	1687.6	29600	-100	-2
Sept. 30................	1687.6	30400	+800	+13
WTR YR 1989	-	-	+700	+1

*Elevation at 0700 on day following that shown in first column.

02187250 HARTWELL LAKE NEAR HARTWELL, GA.

LOCATION.--Lat 34 21'25", long 82 49'20", Hart County, Ga.-Anderson County, S.C., Hydrologic Unit 030060103, in right spillway elevator tower of dam on Savannah River, 1.9 mi upstream from Big Generostee Creek, 6.4 mi east of Hartwell, Ga., and at mile 305.0.

DRAINAGE AREA.--2,088 mi^2.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by concrete dam with earth embankments at each end; storage began in February 1961, dam complete 1961. Usable capacity, 1,708,600 acre-ft between elevations 625.0 ft, normal limit of drawdown, and 665.0 ft, top of gates. Dead storage below 625.0 ft, 1,134,100 acre-ft. Elevation of spillway crest, 630.0 ft. Water is used for flood control, generation of power, and navigation. Capacity table furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,871,000 acre-ft, Apr. 8, 1964, elevation, 665.47 ft; minimum, after first filling, 1,182,000 acre-ft, Oct. 16, 1961, elevation, 626.70 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,551,300 acre-ft, Aug. 7, elevation, 660.03 ft; minimum, 1,832,600 acre-ft, Dec. 30, elevation, 645.33 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30	647.13	1909800	-	-
Oct. 31	646.63	1888100	-21700	-353
Nov. 30	646.21	1870000	-18100	-304
Dec. 31	645.55	1841900	-28100	-457
CAL YR 1988	-	-	-210300	-290
Jan. 31	646.38	1877300	+35400	+576
Feb. 28	647.59	1930100	+52800	+951
Mar. 31	650.10	2043800	+113700	+1849
Apr. 30	650.54	2064400	+20600	+346
May 31	651.01	2086400	+22000	+358
June 30	654.18	2240900	+154500	+2596
July 31	659.58	2526300	+285400	+4642
Aug. 31	657.95	2437000	-89300	-1452
Sept. 30	658.18	2449500	+12500	+210
WTR YR 1989	-	-	+539700	+745

02189004 RICHARD B. RUSSELL RESERVIOR NEAR CALHOUN FALLS, S.C.

LOCATION.--Lat 34 01'30", long 82 35'42", Elbert County, Ga.-Abbeville County, S.C., Hydrologic Unit 03060103, in left spillway elevator tower of dam on Savannah River, 1.2 mi downstream from Beer Manor Creek, 4.6 mi south of Calhoun Falls, S.C., at river mile 275.1.

DRAINAGE AREA.--2,900 mi^2 (furnished by U.S. Army Corps of Engineers).

PERIOD OF RECORD.--May 1984 to current year.

GAGE.--Water-stage recorder and data collection platform. Datum of gage is at National Geodetic Vertical Datum of 1929.

REMARKS.--Lake is formed by concrete dam; storage began on October 5, 1983, dam completed in December 1983. Useable capacity, 126,800 acre-ft between elevations 470.0 ft, normal limit of drawdown, and 475.0 ft, top of spillway gates. Dead storage below 470.0 ft, 899,400 acre-ft. Elevation of spillway crest, 436.0 ft. Water is used for flood control, generation of power, and recreation. Capacity information furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,105,800 acre-ft, Dec. 21, 1985, elevation, 477.90 ft; minimum, 799,000 acre-ft, May 7, 1984, elevation, 465.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,007,200 acre-ft, July 24, elevation, 474.28 ft; minimum, 896,500 acre-ft, Aug.22, elevation, 469.88 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30	470.99	923500	-	-
Oct. 31	470.88	920800	-2700	-44
Nov. 30	471.39	933400	+12600	+212
Dec. 31	471.20	928700	-4700	-76
CAL YR 1988	-	-	+13300	+18
Jan. 31	471.74	942100	+13400	+218
Feb. 28	472.86	970400	+28300	+510
Mar. 31	473.56	988400	+18000	+293
Apr. 30	472.89	971200	-17200	-289
May 31	471.42	934100	-37100	-603
June 30	472.64	964800	+30700	+516
July 31	471.83	944300	-20500	-345
Aug. 31	470.72	916900	-27400	-446
Sept. 30	474.26	1006700	+89800	+1509
WTR YR 1989	-	-	+83200	+115

02194500 THURMOND LAKE NEAR CLARKS HILL, S.C.

(Formerly published as Clarks Hill Lake near Clarks Hill, S.C.)

LOCATION.--Lat 33 39'40", long 82 12'00", Columbia County, Ga.-McCormick County, S.C., Hydrologic Unit 03060103, in left spillway elevator tower of dam on Savannah River, 1.6 mi west of Clarks Hill, S.C., 3.7 mi upstream from Kiokee Creek, and at mile 237.7.

DRAINAGE AREA.--6,150 mi^2, approximately.

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 1703: 1953.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1952, nonrecording gage at same site and datum.

REMARKS.--Lake is formed by concrete dam with earth at each end; storage began in December 1951, dam completed in 1952. Use capacity, 1,730,000 acre-ft between elevations 305.0 ft, normal limit of drawdown, and 335.0 ft, top of spillway gates. Dead storage below 305.0 ft, 1,170,000 acre-ft. Elevation of spillway crest, 300.0 ft. Water is used for flood control, generation of power, and navigation. Capacity table furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 3,037,600 acre-ft, Apr. 9, 1964, elevation, 336.72 ft; minimum, 897,900 acre-ft, Feb. 1, 1956, elevation, 296.48 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,510,000 acre-ft, Aug. 21, elevation, 330.00 ft; minimum, 1,497,400 acre-ft, Feb. 20, 21, elevation, 312.72 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	315.64	1633300	-	-
Oct. 31................	314.92	1596400	-36900	-600
Nov. 30................	314.19	1563600	-32800	-551
Dec. 31................	313.22	1519900	-43700	-711
CAL YR 1988	-	-	-254300	-351
Jan. 31................	313.20	1519000	-900	-15
Feb. 28................	313.74	1543300	+24300	+438
Mar. 31................	318.50	1782000	+238700	+3882
Apr. 30................	322.31	1998600	+216600	+3640
May 31................	324.48	2128800	+130200	+2117
June 30................	325.22	2175400	+46600	+783
July 31................	328.65	2415500	+240100	+3905
Aug. 31................	329.34	2463800	+48300	+786
Sept. 30................	327.87	2360900	-102900	-1729
WTR YR 1989	-	-	+727600	+1005

02201000 WILLIAMSON SWAMP CREEK AT DAVISBORO, GA.

LOCATION.--Lat 32 58'32", long 82 36'36", Washington County, Hydrologic Unit 03060201, at bridge on State Highway 231 at Davisboro, 1.2 mi downstream from Central of Georgia Railroad bridge, and 1.9 mi downstream from Sun Hill Creek

DRAINAGE AREA.--109 mi^2.

PERIOD OF RECORD.--July to December 1903, water years 1979-80 (annual maximum), May 1980 to current year. Monthly discharges only for July to December 1903, published in WSP 1304.

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above National Geodetic Vertical Datum of 1929 (from topographic map). August 16, 1978 to May 8, 1980, crest-stage gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--9 years, 85.9 ft^3/s, 10.70 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,430 ft^3/s, Mar. 13, 1980, gage height, 11.13 ft; minimum discharge, 9.5 ft^3/s, July 15, 16, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 650 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 24	1800	*414	*6.64

Minimum discharge, 17 ft^3/s, Sept. 18-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	134	41	195	52	106	73	52	20	23	51	100
2	27	152	40	226	47	102	63	149	20	22	50	45
3	51	65	38	108	46	229	59	109	19	22	44	33
4	197	47	38	138	44	254	57	64	19	23	35	39
5	138	73	37	107	43	206	61	72	18	24	29	26
6	56	94	38	76	56	158	67	95	19	26	26	29
7	36	63	41	74	64	130	61	71	21	27	24	33
8	28	47	38	66	50	107	62	46	23	25	23	38
9	26	42	38	78	44	92	152	40	130	26	23	30
10	24	41	41	119	41	84	284	169	133	33	23	26
11	23	39	43	109	41	77	384	283	46	28	22	23
12	23	39	46	83	39	72	291	125	30	23	25	21
13	21	37	44	74	43	69	170	76	25	23	25	20
14	20	37	41	69	39	67	119	60	22	41	24	19
15	21	37	40	64	38	70	116	50	20	44	25	18
16	21	38	49	65	38	74	128	41	35	69	26	18
17	21	50	57	60	39	66	100	36	89	57	28	18
18	21	66	49	55	37	62	86	32	55	39	26	17
19	21	55	44	52	38	59	74	30	45	37	25	17
20	20	48	42	51	38	57	87	32	65	140	25	17
21	21	46	40	51	110	63	85	38	74	241	23	20
22	26	42	41	48	339	87	71	36	86	327	23	252
23	26	43	41	47	265	165	63	34	89	200	26	340
24	24	44	42	46	129	368	51	37	58	134	21	104
25	23	42	42	44	98	289	44	30	37	102	21	61
26	22	41	43	43	78	158	40	29	31	67	35	90
27	22	43	40	44	65	114	37	27	28	46	229	127
28	24	46	43	44	78	99	33	24	26	43	101	84
29	25	47	48	43	—	89	31	22	25	35	51	62
30	25	43	46	46	—	83	31	21	24	32	39	134
31	31	—	71	56	—	89	—	21	—	54	34	—
TOTAL	1086	1641	1342	2381	2039	3745	2980	1951	1332	2033	1182	1861
MEAN	35.0	54.7	43.3	76.8	72.8	121	99.3	62.9	44.4	65.6	38.1	62.0
MAX	197	152	71	226	339	368	384	283	133	327	229	340
MIN	20	37	37	43	37	57	31	21	18	22	21	17
CFSM	.32	.50	.40	.71	.67	1.11	.91	.58	.41	.60	.35	.57
IN.	.37	.56	.46	.81	.70	1.28	1.02	.67	.45	.69	.40	.64

CAL YR 1988	TOTAL	17908	MEAN	48.9	MAX	197	MIN	12	CFSM	.45	IN	6.11
WTR YR 1989	TOTAL	23573	MEAN	64.6	MAX	384	MIN	17	CFSM	.59	IN	8.05

02202190 OGEECHEE RIVER NEAR OLIVER, GA.

LOCATION.–Lat 32°29'45", long 81°33'11", Screven-Bulloch County line, Hydrologic Unit 03060202, at bridge on State Highway 24, 0.3 mi upstream from Ogeechee Creek, and 2.0 mi southwest of Oliver.

DRAINAGE AREA.–2,230 mi^2, approximately.

PERIOD OF RECORD.–August 1974 to current year.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
11...	0745	990	106	104	6.90	7.10	15.5	12.5	7.3	73
NOV										
15...	0910	840	105	108	7.00	7.20	14.5	17.5	6.8	66
DEC										
07...	0930	600	118	117	–	7.40	8.0	11.5	10.0	84
JAN										
10...	0935	1120	92	93	6.83	7.30	12.0	8.0	8.4	77
FEB										
07...	0925	800	110	110	7.36	7.30	16.0	20.5	7.8	79
MAR										
08...	0920	3960	65	67	6.61	6.60	11.0	1.0	7.8	70
APR										
11...	0835	2810	81	80	6.96	6.90	12.5	6.5	7.7	72
MAY										
10...	0845	2230	84	86	7.09	7.30	17.5	21.0	6.7	71
JUN										
13...	0825	590	131	135	7.38	7.70	26.0	26.5	5.9	73
JUL										
11...	0830	880	99	100	7.19	7.30	27.0	29.5	5.1	64
AUG										
21...	0740	1150	100	105	6.61	7.00	25.0	25.5	5.2	63
SEP										
25...	0825	3300	62	60	6.60	6.50	20.0	17.0	5.7	63

02202190 OGEECHEE RIVER NEAR OLIVER, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT							
11...	120	4.0	5	0.5	130	28	<1
NOV							
15...	90	3.0	28	1.8	20	28	2
DEC							
07...	60	4.0	27	1.7	110	39	1
JAN							
10...	80	7.0	--	1.5	170	28	<1
FEB							
07...	75	4.0	22	0.6	50	36	1
MAR							
08...	100	12	40	2.1	80	13	4
APR							
11...	50	6.0	41	0.8	220	25	3
MAY							
10...	100	9.0	14	1.3	170	26	<1
JUN							
13...	25	6.0	28	0.3	--	42	2
JUL							
11...	80	4.0	37	0.8	55	33	<1
AUG							
21...	60	6.0	--	1.4	130	29	1
SEP							
25...	120	7.0	--	1.5	270	12	3

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
11...	0.140	0.060	0.74	0.80	0.94	0.120	14
NOV							
15...	0.110	<0.030	--	0.50	0.61	0.150	12
DEC							
07...	0.060	<0.030	--	0.20	0.26	0.120	6.8
JAN							
10...	--	--	--	--	--	0.120	10
FEB							
07...	0.100	0.040	0.26	0.30	0.40	0.140	7.9
MAR							
08...	<0.020	<0.030	--	0.80	--	0.120	18
APR							
11...	0.110	<0.030	--	0.60	0.71	0.090	13
MAY							
10...	0.200	0.040	0.86	0.90	1.1	0.150	12
JUN							
13...	0.420	0.040	0.36	0.40	0.82	0.150	5.6
JUL							
11...	0.220	0.280	1.0	1.3	1.5	0.160	10
AUG							
21...	0.200	0.090	--	--	--	0.100	19
SEP							
25...	0.060	0.030	--	--	--	0.180	--

02202500 OGEECHEE RIVER NEAR EDEN, GA.
(National Stream-Quality Accounting Network station)

LOCATION.–Lat 32°11'29", long 81°24'58", Effingham-Bryan County line, Hydrologic Unit 03060202, on right bank 600 ft downstream from bridge on U.S. Highway 80, 2 mi west of Eden, 2 mi upstream from Seaboard Coast Line Railroad bridge, and 3 mi upstream from Black Creek.

DRAINAGE AREA.–2,650 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–April 1937 to current year.

GAGE.–Water-stage recorder. Datum of gage is 19.64 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1939, nonrecording gage at site 600 ft upstream at same datum.

REMARKS.–No estimated daily discharges. Records good.

AVERAGE DISCHARGE.–52 years, 2,285 ft^3/s, 11.71 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 28,800 ft^3/s, Mar. 19, 1980, gage height, 14.77 ft; minimum daily, 114 ft^3/s, July 23 and 24, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known since at least 1840, 20 ft in October 1929, from data furnished by Central of Georgia Railway Co. Flood of January 1925, reached a stage of 19.5 ft, from information as explained above. Flood of April 1936, reached a stage of 15.2 ft, from information as explained above, discharge, 30,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 4,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 25	0300	*5,670	*9.40	No other peak greater than base discharge.			

Minimum daily discharge, 340 ft^3/s, June 10.

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2540	457	691	637	854	1100	2300	2860	644	1750	2730	1010
2	2310	449	679	647	825	1200	2320	2740	584	1700	2610	986
3	2160	442	666	686	801	1370	2330	2580	527	1660	2450	1020
4	2010	444	651	722	785	1560	2340	2330	473	1630	2360	1080
5	1770	461	637	755	775	1810	2400	2120	426	1550	2320	1110
6	1630	492	624	788	769	2130	2480	2000	406	1550	2290	1130
7	1560	557	615	819	769	2480	2620	1900	386	1550	2230	1200
8	1490	610	608	849	769	2840	2770	1800	355	1580	2130	1340
9	1390	650	610	881	765	3200	2820	1740	343	1510	2020	1490
10	1270	681	619	914	758	3520	2770	1850	340	1350	1830	1620
11	1180	703	637	959	754	3700	2710	1990	350	1190	1560	1710
12	1120	729	653	1010	749	3690	2630	2070	371	1070	1360	1680
13	1060	761	664	1070	744	3530	2760	2080	417	957	1250	1550
14	1000	788	666	1130	739	3350	3060	2000	490	875	1270	1370
15	964	806	655	1190	734	3220	3530	1930	583	900	1350	1190
16	948	807	648	1250	728	3140	4020	1950	691	927	1470	1030
17	963	787	648	1300	726	3080	4330	2030	824	844	1530	907
18	999	759	662	1330	725	2980	4440	2070	999	778	1580	817
19	1050	734	678	1310	722	2880	4450	2040	1190	826	1540	777
20	1080	708	685	1250	718	2740	4500	1970	1360	935	1490	764
21	1070	675	689	1190	710	2580	4540	1900	1410	961	1420	784
22	948	640	688	1160	716	2440	4640	1860	1250	944	1330	1630
23	754	622	687	1130	746	2320	4970	1850	1020	1030	1260	2190
24	628	643	688	1120	797	2240	5480	1830	935	1220	1280	2760
25	571	686	689	1100	846	2150	5590	1770	1030	1550	1470	3370
26	538	709	686	1070	899	2090	5150	1690	1300	1990	1360	3820
27	509	713	679	1040	958	2040	4500	1550	1620	2370	1230	4160
28	488	716	672	996	1020	2030	3850	1330	1850	2630	1210	4330
29	481	712	660	953	—	2070	3300	1050	1910	2820	1130	4250
30	478	702	652	916	—	2160	3000	851	1850	2940	1030	4010
31	467	—	646	890	—	2250	—	724	—	2900	991	—
TOTAL	35426	19643	20432	31062	21901	77890	106600	58455	25934	46487	51081	55085
MEAN	1143	655	659	1002	782	2513	3553	1886	864	1500	1648	1836
MAX	2540	807	691	1330	1020	3700	5590	2860	1910	2940	2730	4330
MIN	467	442	608	637	710	1100	2300	724	340	778	991	764
CFSM	.43	.25	.25	.38	.30	.95	1.34	.71	.33	.57	.62	.69
IN.	.50	.28	.29	.44	.31	1.09	1.50	.82	.36	.65	.72	.77

CAL YR 1988 TOTAL 376740 MEAN 1029 MAX 3290 MIN 120 CFSM .39 IN 5.29
WTR YR 1989 TOTAL 549996 MEAN 1507 MAX 5590 MIN 340 CFSM .57 IN 7.72

02202500 OGEECHEE RIVER NEAR EDEN, GA.–Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.–February 1968 to current year.
PERIOD OF DAILY RECORD.–
SPECIFIC CONDUCTANCE: October 1975 to September 1981.
WATER TEMPERATURES: October 1972 to September 1981.
EXTREMES FOR PERIOD OF DAILY RECORD.–
SPECIFIC CONDUCTANCE: Maximum recorded, 183 microsiemens Sept. 13, 1978; minimum, 23 microsiemens Mar. 20, 1980.
WATER TEMPERATURES: Maximum, 32.0°C July 9-11, 13, 15, 21, 22, 1977, Aug. 9, 1980; minimum, 1.5°C Jan. 19-21, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
OCT 26...	1400	536	122	119	7.28	7.40	16.0	8.0	81	40	33	36
JAN 09...	1350	883	100	103	7.42	7.70	13.0	9.5	89	38	31	30
MAR 01...	1315	1110	91	94	7.28	7.30	11.0	9.9	89	21	17	–
MAY 03...	1330	2570	77	84	7.02	7.20	21.0	5.8	64	31	25	27
JUL 18...	1330	771	103	108	7.23	7.60	28.0	5.7	73	38	31	34
AUG 29...	1330	1130	97	99	7.11	7.30	26.5	5.5	68	32	27	29

DATE	TUR-BID-ITY (NTU)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
OCT 26...	2.6	40	2100	32	10	1.6	12	44	0.9	1.6
JAN 09...	3.7	120	270	30	9.4	1.5	9.7	40	0.8	1.8
MAR 01...	7.8	100	120	27	8.5	1.4	7.7	37	0.6	1.6
MAY 03...	3.8	34	86	29	9.0	1.5	4.8	25	0.4	1.8
JUL 18...	4.7	8	78	32	9.9	1.7	9.2	37	0.7	1.6
AUG 29...	2.1	60	100	31	9.6	1.6	8.5	36	0.7	1.7

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT 26...	17	9.8	0.10	14	97	88	140	0.13
JAN 09...	17	9.7	0.10	10	81	79	193	0.11
MAR 01...	13	9.3	0.10	8.1	69	60	207	0.09
MAY 03...	2.2	6.7	0.10	9.0	79	52	547	0.11
JUL 18...	5.0	7.3	0.10	11	79	66	164	0.11
AUG 29...	5.0	8.5	0.10	12	94	65	287	0.13

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	PHOS-PHOROUS DIS-SOLVED (MG/L AS P)	PHOS-PHOROUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT 26...	<0.010	0.210	<0.010	<0.010	--	0.50	0.080	0.070	0.040
JAN 09...	<0.010	<0.100	0.040	0.030	0.66	0.70	0.070	0.050	0.030
MAR 01...	0.010	<0.100	0.030	<0.010	0.67	0.70	0.070	0.050	0.030
MAY 03...	0.010	0.140	0.050	0.060	0.85	0.90	0.110	0.080	0.050
JUL 18...	<0.010	0.270	0.030	0.040	1.1	1.1	0.100	0.090	0.060
AUG 29...	<0.010	0.180	0.030	0.030	0.57	0.60	0.100	0.060	0.040

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT 26...	40	<1	30	<0.5	2	1	<3	1	940	<5
JAN 09...	60	<1	24	<0.5	<1	1	<3	<1	790	<5
MAY 03...	50	<1	31	<0.5	<1	<1	<3	2	1000	<5
AUG 29...	100	<1	32	<0.5	<1	<1	<3	4	940	<1

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT										
26...	<4	98	0.1	<10	2	<1	1.0	34	<6	6
JAN										
09...	<4	22	<0.1	<10	<1	1	<1.0	29	<6	<3
MAY										
03...	<4	56	<0.1	<10	12	<1	<1.0	32	<6	26
AUG										
29...	<4	100	<0.1	<10	1	<1	<1.0	39	<6	7

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
26...	1405	536	16.0	3	4.3	89
JAN						
09...	1355	883	13.0	14	33	85
MAR						
01...	1320	1110	11.0	8	24	88
MAY						
03...	1335	2570	21.0	7	48	81
JUL						
18...	1335	771	28.0	5	10	99
AUG						
29...	1335	1130	26.5	5	15	79

02202600 BLACK CREEK NEAR BLITCHTON, GA.

LOCATION.–Lat 32°10'04", long 81°29'18", Bryan County, Hydrologic Unit 03060202, at bridge on U.S. Highway 280 (State Highway 30), 4.2 mi upstream from Mill Creek, 5.8 mi southwest of Blitchton, and 8.7 mi upstream from mouth.

DRAINAGE AREA.–232 mi^2.

PERIOD OF RECORD.–Occasional low-flow measurements, water years 1944, 1951, 1954, 1959, 1961-62, 1964-68, 1973. February 1980 to current year.

GAGE.–Water-stage recorder. Elevation of gage is 30 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.–No estimated daily discharges. Records good, except those for the period November 25 to February 15, which are fair.

AVERAGE DISCHARGE.–9 years, 149 ft^3/s, 8.72 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 5,480 ft^3/s, Nov. 24, 1985, gage height, 12.84 ft; zero flow was observed August 19, 1954.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 24	1800	*2,600	*10.92	No other peak greater than base discharge.			

Minimum daily discharge, 1.2 ft^3/s, June 14

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	8.5	48	27	45	63	61	25	1.7	107	113	81
2	201	8.5	42	29	42	64	46	33	1.6	138	183	84
3	174	8.2	33	29	42	94	36	50	1.5	145	306	65
4	218	9.0	26	28	43	130	31	65	1.4	163	275	61
5	226	17	23	27	41	174	34	48	1.3	199	266	97
6	251	32	21	33	37	202	27	46	1.5	358	209	177
7	237	34	19	42	35	196	19	55	1.7	717	132	181
8	217	32	17	42	33	177	15	50	1.7	666	87	162
9	176	41	16	39	29	158	13	39	1.8	385	96	127
10	134	44	15	34	25	142	30	57	1.7	247	194	104
11	107	40	18	29	23	120	114	139	1.5	205	263	90
12	90	34	29	27	22	102	165	197	1.5	155	321	91
13	74	28	29	28	20	91	275	218	1.3	185	263	77
14	58	24	27	29	19	81	321	189	1.2	144	208	69
15	46	21	29	28	19	73	300	150	1.3	95	204	192
16	39	20	37	30	17	68	275	106	1.4	123	287	316
17	33	18	52	32	15	65	228	71	1.5	176	354	288
18	29	15	49	37	13	56	200	45	1.6	178	738	242
19	25	14	48	49	12	49	155	30	1.8	242	820	179
20	21	16	54	51	13	44	118	19	2.5	219	653	124
21	21	16	52	48	16	42	95	13	2.3	160	366	114
22	23	14	47	45	39	41	81	8.7	84	158	210	617
23	19	14	45	44	51	61	71	6.8	270	205	139	1570
24	16	19	45	42	59	95	61	5.8	251	309	106	2480
25	14	22	42	38	74	116	57	4.6	159	607	107	2170
26	12	28	39	33	78	143	49	3.8	120	814	101	1540
27	11	48	35	32	74	135	37	3.0	101	707	92	1170
28	10	61	32	31	68	111	25	2.5	97	632	165	907
29	11	61	31	29	—	100	17	2.1	89	434	129	689
30	11	54	29	29	—	86	13	2.1	80	243	97	528
31	10	—	28	41	—	75	—	1.9	—	147	73	—
TOTAL	2777	801.2	1057	1082	1004	3154	2969	1686.3	1284.8	9263	7557	14592
MEAN	89.6	26.7	34.1	34.9	35.9	102	99.0	54.4	42.8	299	244	486
MAX	263	61	54	51	78	202	321	218	270	814	820	2480
MIN	10	8.2	15	27	12	41	13	1.9	1.2	95	73	61
CFSM	.39	.12	.15	.15	.16	.44	.43	.23	.18	1.29	1.05	2.10
IN.	.45	.13	.17	.17	.16	.51	.48	.27	.21	1.49	1.21	2.34

CAL YR 1988	TOTAL	32345.87	MEAN	88.4	MAX	1010	MIN	.56	CFSM	.38	IN	5.19
WTR YR 1989	TOTAL	47227.30	MEAN	129	MAX	2480	MIN	1.2	CFSM	.56	IN	7.57

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.

LOCATION.–Lat 32°11'05", long 81°53'20", Evans County, Hydrologic Unit 03060208, on right bank 400 ft upstream from bridge on State Highway 73, 2 mi northeast of Claxton, and 10 mi upstream from Lotts Creek.
DRAINAGE AREA.–555 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–May 1937 to current year.
REVISED RECORDS.–WSP 1112: 1939-41, 1944.
GAGE.–Water-stage recorder. Datum of gage is 80.5 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Oct. 20, 1949, nonrecording gage at same site and datum.
REMARKS.–No estimated daily discharges. Records good.
AVERAGE DISCHARGE.–52 years, 460 ft^3/s, 11.26 in/yr.
EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 12,600 ft^3/s, May 26, 1966, gage height, 16.58 ft; minimum daily discharge 0.62 ft^3/s, Nov. 8, 19, 1983.
EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 1,800 ft3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 15	2400	*2,350	*10.74	Sept. 27	1800	2,280	10.58

Minimum daily discharge, 11 ft^3/s, June 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	585	57	172	126	132	288	458	186	20	323	338	129
2	437	77	152	159	129	305	354	198	16	213	310	148
3	404	70	144	179	130	493	276	220	13	169	320	213
4	622	85	138	196	131	693	225	277	12	271	280	429
5	700	217	129	213	126	843	194	276	11	451	242	482
6	637	355	123	215	120	985	181	258	14	665	202	524
7	529	425	123	200	115	1100	170	277	14	816	147	611
8	436	448	118	193	113	1110	147	282	17	759	121	591
9	362	426	110	190	112	1060	133	255	23	524	134	530
10	363	365	106	177	110	987	192	317	35	422	128	468
11	314	291	109	163	107	824	515	567	61	352	95	370
12	242	236	132	153	105	673	800	687	82	379	70	276
13	183	203	156	147	103	552	1090	718	82	407	52	203
14	142	195	163	144	99	466	1520	618	94	364	40	172
15	119	188	163	140	95	411	2160	476	71	305	36	136
16	103	179	167	167	96	364	2280	326	44	242	36	109
17	92	167	185	186	92	318	1910	220	32	253	29	111
18	82	125	190	185	87	286	1520	181	62	336	46	127
19	74	92	192	175	84	290	1300	154	162	324	119	251
20	66	89	195	162	81	257	1070	122	481	274	272	224
21	60	87	186	150	88	226	920	96	678	316	432	158
22	60	82	174	140	151	239	828	89	825	359	512	605
23	57	86	161	132	201	260	765	83	1160	418	461	958
24	50	165	155	126	250	402	704	61	1470	558	368	1410
25	48	290	164	121	326	548	651	46	1460	647	258	2060
26	43	373	145	115	343	661	575	36	1200	736	180	1890
27	39	372	135	111	335	708	464	30	925	854	145	2190
28	42	324	128	107	317	686	332	39	748	883	115	2100
29	53	248	124	103	—	646	235	39	624	745	86	1630
30	54	201	119	104	—	596	192	29	490	586	71	1240
31	50	—	117	123	—	550	—	24	—	446	84	—
TOTAL	7048	6518	4575	4802	4178	17827	22161	7187	10926	14397	5729	20345
MEAN	227	217	148	155	149	575	739	232	364	464	185	678
MAX	700	448	195	215	343	1110	2280	718	1470	883	512	2190
MIN	39	57	106	103	81	226	133	24	11	169	29	109
CFSM	.41	.39	.27	.28	.27	1.04	1.33	.42	.66	.84	.33	1.22
IN.	.47	.44	.31	.32	.28	1.19	1.49	.48	.73	.96	.38	1.36

CAL YR 1988	TOTAL	105907.3	MEAN	289	MAX	1660	MIN	1.1	CFSM	.52	IN	7.10
WTR YR 1989	TOTAL	125693.0	MEAN	344	MAX	2280	MIN	11	CFSM	.62	IN	8.42

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
11...	0910	323	54	55	5.60	5.30	15.0	18.5	7.8	77
NOV										
15...	1135	191	60	58	5.70	5.60	15.0	21.0	6.3	62
DEC										
06...	1015	123	55	54	6.00	5.60	8.0	14.0	9.9	83
JAN										
12...	0805	154	53	57	6.12	6.20	12.0	12.5	8.9	82
FEB										
07...	1120	114	53	54	5.98	5.80	17.5	21.5	7.4	77
MAR										
07...	1040	1120	73	85	5.68	5.60	15.0	9.5	7.0	69
APR										
13...	1155	1070	45	47	5.44	5.30	12.0	18.5	8.6	79
MAY										
09...	1035	261	95	103	5.57	5.70	17.0	22.5	7.3	76
JUN										
15...	0850	75	60	--	5.62	5.60	26.0	29.0	7.0	86
JUL										
11...	1000	351	48	48	5.82	5.60	26.0	31.5	5.7	70
AUG										
21...	0930	419	51	52	5.68	5.30	24.0	31.0	5.4	64
SEP										
27...	1210	2220	44	45	--	4.90	19.0	21.5	5.9	63

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
11...	140	3.0	0.7	80	3	1	0.070	0.040	0.130	24
NOV										
15...	190	7.0	1.6	90	3	6	0.080	<0.030	0.130	25
DEC										
06...	30	3.0	1.7	50	4	<1	<0.020	0.030	0.070	18
JAN										
12...	--	5.0	1.4	50	4	4	0.100	0.060	0.130	16
FEB										
07...	160	5.0	0.9	80	6	6	0.050	0.040	0.100	17
MAR										
07...	120	9.0	1.6	330	5	4	0.030	<0.030	0.100	19
APR										
13...	70	13	2.5	1300	2	8	0.100	0.070	0.120	18
MAY										
09...	200	7.0	1.3	70	3	6	0.080	0.030	0.120	24
JUN										
15...	140	4.0	0.9	20	3	3	<0.020	<0.030	0.110	20
JUL										
11...	110	7.0	1.6	<20	3	6	0.100	0.030	0.120	22
AUG										
21...	120	9.0	1.0	460	2	17	0.070	0.090	0.110	39
SEP										
27...	110	6.0	1.7	1100	3	4	0.020	<0.030	0.130	--

02203519 CANOOCHEE RIVER NEAR RICHMOND HILL, GA.

LOCATION.--Lat 31°58'59", long 81°23'07", Bryan County, Hydrologic Unit 03060203, at bridge on State Highway 67, 5.3 mi west of Richmond Hill, and 8.5 mi upstream from Ogeechee River.

PERIOD OF RECORD.--July 1978 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
13...	0815	54	53	5.40	5.10	15.5	9.0	7.1	70
NOV									
17...	0830	66	66	6.00	5.90	18.5	22.0	5.8	62
DEC									
06...	0810	77	75	6.40	6.10	9.0	3.5	8.5	73
JAN									
12...	0950	67	67	6.41	6.60	13.0	13.5	7.8	73
FEB									
09...	0845	71	70	6.71	6.30	14.0	5.5	7.7	73
MAR									
07...	0700	65	66	6.41	6.30	14.0	6.0	8.0	78
APR									
13...	1400	54	67	6.29	6.30	14.5	20.5	8.2	80
MAY									
09...	1215	59	67	6.03	6.20	19.5	25.5	5.9	64
JUN									
15...	0700	110	112	7.12	6.90	28.0	25.0	5.7	73
JUL									
13...	1530	50	50	5.93	6.10	27.0	31.0	5.6	70
AUG									
23...	1135	50	--	5.47	5.20	26.5	36.0	4.4	55
SEP									
27...	0930	54	58	--	4.70	20.5	22.5	6.1	67

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
13...	320	3.0	1.1	110	3	5	0.090	0.050	0.160	36
NOV										
17...	210	4.0	1.7	--	8	12	0.090	<0.030	0.280	30
DEC										
06...	120	3.0	1.6	20	6	3	0.080	0.170	0.120	<1.0
JAN										
12...	--	3.0	1.2	70	8	2	0.160	0.030	0.160	19
FEB										
09...	140	5.0	1.2	<20	10	4	0.290	0.030	0.250	16
MAR										
07...	120	6.0	1.9	490	8	1	0.150	<0.030	0.140	17
APR										
13...	70	5.0	3.4	170	6	4	0.140	0.070	0.200	22
MAY										
09...	90	5.0	1.2	50	8	1	1.57	0.040	0.210	20
JUN										
15...	75	4.0	1.1	130	18	4	0.400	0.070	0.360	9.5
JUL										
13...	150	5.0	1.2	50	6	5	0.110	0.050	0.130	20
AUG										
23...	300	8.0	1.5	30	2	5	0.140	0.140	0.140	36
SEP										
27...	200	6.0	1.2	50	2	6	0.040	0.040	0.150	--

02203519 CANOOCHEE RIVER NEAR RICHMOND HILL, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
13...	320	3.0	1.1	110	3	5	0.090	0.050	0.160	36
NOV										
17...	210	4.0	1.7	--	8	12	0.090	<0.030	0.280	30
DEC										
06...	120	3.0	1.6	20	6	3	0.080	0.170	0.120	<1.0
JAN										
12...	--	3.0	1.2	70	8	2	0.160	0.030	0.160	19
FEB										
09...	140	5.0	1.2	<20	10	4	0.290	0.030	0.250	16
MAR										
07...	120	6.0	1.9	490	8	1	0.150	<0.030	0.140	17
APR										
13...	70	5.0	3.4	170	6	4	0.140	0.070	0.200	22
MAY										
09...	90	5.0	1.2	50	8	1	1.57	0.040	0.210	20
JUN										
15...	75	4.0	1.1	130	18	4	0.400	0.070	0.360	9.5
JUL										
13...	150	5.0	1.2	50	6	5	0.110	0.050	0.130	20
AUG										
23...	300	8.0	1.5	30	2	5	0.140	0.140	0.140	36
SEP										
27...	200	6.0	1.2	50	2	6	0.040	0.040	0.150	--

02203578 NORTH NEWPORT RIVER AT HALFMOON LANDING, GA.

LOCATION.–Lat 31°40'39", long 81°18'05", Liberty County, Hydrologic Unit 03060204, at Halfmoon Landing, at mile 9.9.
DRAINAGE AREA.–157 mi^2.
PERIOD OF RECORD.–September 1966 to current year.
PERIOD OF DAILY RECORD.–
SPECIFIC CONDUCTANCE: July 1970 to September 1976.
pH: July 1970 to September 1976.
WATER TEMPERATURES: July 1970 to September 1976.
DISSOLVED OXYGEN: July 1970 to September 1976.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.–
SPECIFIC CONDUCTANCE: Maximum recorded, 45,500 microsiemens Nov. 29, 1975; minimum recorded, 5,650 microsiemens Sept. 1, 1971.
pH: Maximum recorded, 8.1 units Mar. 24, 1975; minimum recorded, 6.5 units July 11, 12, 1971.
WATER TEMPERATURES: Maximum, 33.5°C Sept. 1, 2, 1970; minimum, 6.0°C Jan. 20-24, 1976.
DISSOLVED OXYGEN: Maximum recorded, 12.8 mg/L Feb. 13, 1973; minimum reccorded, 1.4 mg/L July 30, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH (STANDARD UNITS)	PH LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DFG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT									
13...	1000	–	36100	7.50	7.60	19.5	14.0	7.2	–
NOV									
17...	1500	41000	38700	7.60	7.60	20.0	24.0	7.8	100
DEC									
06...	0645	40500	40100	7.90	7.70	13.5	0.0	7.7	86
JAN									
12...	1220	45300	42000	7.66	7.70	14.5	18.0	6.8	79
FEB									
09...	1100	45100	43000	7.77	7.60	16.0	8.0	6.9	82
MAR									
07...	0830	47500	45000	7.79	7.90	14.5	7.5	7.2	85
APR									
13...	1530	45500	44100	7.76	7.60	16.0	19.0	8.7	104
MAY									
09...	1320	46000	43700	7.54	7.50	22.5	25.0	6.3	86
JUN									
15...	0540	45000	44500	7.68	7.60	28.0	24.5	6.3	94
JUL									
13...	1645	45000	44200	7.67	8.00	30.0	32.0	7.4	115
AUG									
23...	1450	40000	41200	7.43	7.40	30.0	37.0	5.2	79
SEP									
27...	0745	31000	30300	–	7.30	23.0	22.0	5.7	74

02203800 SOUTH RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°40'46", long 84°18'30", DeKalb County, Hydrologic Unit 03070103, at the bridge on Bouldercrest Road at Atlanta, 0.4 mi southeast of Interstate Highway 285, and 1.1 mi upstream from Sugar Creek.

DRAINAGE AREA.--41.5 mi^2.

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Streamflow includes some water diverted from the Chattahoochee River by DeKalb County and City of Atlanta for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
06...	1310	22	169	165	7.00	7.00	16.5	22.5	7.7	80
NOV										
02...	1320	19	179	172	7.00	7.00	13.0	21.0	7.6	75
DEC										
08...	1510	--	219	229	7.20	7.10	9.0	23.0	8.6	76
JAN										
05...	1130	30	155	170	7.20	7.00	7.0	14.5	10.4	87
FEB										
09...	0840	25	178	--	6.60	7.10	5.0	0.0	9.0	71
MAR										
15...	1545	12	207	212	7.20	7.40	17.5	26.5	8.4	90
APR										
05...	1400	290	104	103	6.60	6.70	15.0	24.0	8.5	86
MAY										
03...	0850	50	209	212	7.00	7.30	16.0	13.0	7.6	78
JUN										
08...	0850	13	181	--	6.90	7.30	20.5	21.0	6.5	74
JUL										
12...	1300	19	201	198	7.10	7.10	24.5	33.0	6.5	79
AUG										
03...	0850	16	226	228	6.80	6.70	23.0	27.0	0.5	6
SEP										
11...	1345	24	216	212	7.27	7.10	24.0	31.0	5.5	67

02203800 SOUTH RIVER AT ATLANTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
06...	9.0	3.9	330000	30	13	0.250	0.530	0.080	4.7
NOV									
02...	7.0	6.4	49000	34	<1	0.290	0.610	0.070	6.6
DEC									
08...	12	5.4	--	47	3	0.160	0.640	0.210	4.9
JAN									
05...	15	4.0	49000	30	1	0.200	0.060	0.060	5.0
FEB									
09...	9.0	4.2	7900	33	3	0.310	0.430	0.100	4.7
MAR									
15...	9.0	1.8	1400	42	4	0.590	0.320	0.200	6.9
APR									
05...	110	4.0	280000	21	130	0.450	0.130	0.170	7.9
MAY									
03...	22	4.8	1700000	44	11	0.660	0.120	0.130	6.5
JUN									
08...	11	1.8	--	44	<1	0.390	0.450	0.260	5.0
JUL									
12...	6.0	1.9	3300	48	2	0.660	0.510	0.130	1.7
AUG									
03...	14	10	--	57	10	0.090	<0.030	0.210	9.6
SEP									
11...	17	4.2	--	51	8	0.440	1.24	0.210	6.6

02203965 SOUTH RIVER NEAR LITHONIA, GA.

LOCATION.--Lat 33 39'14", long 84 11'12", DeKalb County, Hydrologic Unit 03070103, at bridge on State Highway 155, 2.0 mi south of State Highway 212, 2.4 mi downstream from Snapfinger Creek, and 6.2 mi southwest of Lithonia.

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Streamflow includes some water diverted from the Chattahoochee River by DeKalb County and City of Atlanta for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
04...	1420	150	151	7.20	7.20	20.5	25.0	7.6	86
NOV									
01...	1600	170	171	7.20	7.10	14.0	20.5	9.6	95
DEC									
08...	1430	237	243	7.30	7.50	10.0	23.5	11.0	99
JAN									
05...	1045	179	201	7.10	7.40	7.5	14.0	10.8	92
FEB									
09...	0920	220	252	6.90	7.40	7.0	0.5	10.5	87
MAR									
15...	1630	241	239	7.50	7.50	17.0	26.5	9.1	96
APR									
05...	1330	103	103	6.60	6.70	15.0	23.0	8.5	86
MAY									
03...	0930	156	158	7.20	7.60	16.5	14.5	8.7	91
JUN									
08...	0820	243	--	7.30	7.30	21.0	22.0	7.0	81
JUL									
12...	2030	228	220	7.30	7.50	24.0	23.0	7.3	89
AUG									
03...	0920	210	212	7.30	7.20	23.5	29.0	7.1	85
SEP									
12...	1230	168	172	7.11	7.10	23.0	30.5	6.8	82

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
04...	100	1.5	4100	28	62	2.09	0.090	0.210	5.7
NOV									
01...	22	4.1	23000	31	2	2.60	0.040	0.250	8.7
DEC									
08...	4.0	1.4	--	45	2	3.80	0.040	0.690	2.0
JAN									
05...	21	2.4	20	36	5	0.670	0.110	0.350	4.1
FEB									
09...	12	2.3	20	37	5	4.40	0.080	0.660	6.3
MAR									
15...	6.0	2.2	330	38	3	3.20	0.120	0.220	2.9
APR									
05...	120	3.8	100000	20	128	0.450	0.140	0.210	8.3
MAY									
03...	28	1.8	330000	32	16	1.66	<0.030	0.150	4.0
JUN									
08...	13	0.5	--	35	3	4.20	0.100	0.510	5.7
JUL									
12...	84	1.0	3300	38	--	3.22	0.050	0.330	2.8
AUG									
03...	11	1.5	--	34	9	3.40	<0.030	0.250	4.1
SEP									
12...	100	1.9	4900	27	50	2.07	0.090	0.180	6.4

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.

LOCATION.--Lat 33°37'47", long 84 07'43", DeKalb-Rockdale County line, Hydrologic Unit 03070103, at bridge on Klondike Road, 1.1 mi south of State Highway 212, 1.2 mi downstream from Pole Bridge Creek, 5.8 mi southwest of Lithonia, and 8.6 mi downstream from Snapfinger Creek.

DRAINAGE AREA.--182 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder. Datum of gage is 660.90 ft above National Geodetic Vertical Datum of 1929 (levels from DeKalb County benchmark).

REMARKS.--No estimated daily discharges. Records good. Streamflow includes some water diverted from the Chattahoochee River by DeKalb County and City of Atlanta for municipal supply.

AVERAGE DISCHARGE.--6 years, 261 ft^3/s, 19.47 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,360 ft^3/s, June 21, 1989, gage height, 10.22 ft; minimum daily discharge, 48 ft^3/s, July 20, 21, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 30, 1963 reached a stage of 11.80 ft, discharge 9,630 ft^3/s, revised.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 5	0915	4,730	9.30	July 4	0115	5,020	9.47
June 21	0500	*6,360	*10.22	Sept. 26	1415	6,030	10.04

Minimum daily discharge, 72 ft^3/s, Oct. 1.

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	223	147	369	119	297	179	925	99	170	381	200
2	1320	111	134	170	113	222	160	1340	146	153	209	127
3	536	98	123	430	112	327	169	256	110	1830	176	115
4	545	89	117	392	116	230	293	197	107	1690	156	102
5	182	985	113	177	155	329	3220	197	103	823	147	98
6	132	198	110	159	191	339	592	390	259	557	140	109
7	111	128	109	157	270	229	350	184	224	397	134	139
8	99	123	107	139	199	181	364	152	122	251	125	110
9	97	132	106	138	143	165	962	713	125	261	123	105
10	92	120	102	131	131	157	485	1380	115	362	125	103
11	89	117	103	128	119	150	363	341	103	198	122	369
12	86	105	102	125	119	148	271	233	99	173	120	367
13	83	99	100	803	116	141	238	200	96	209	120	263
14	82	100	100	259	114	136	211	195	93	176	119	160
15	82	97	100	236	113	133	427	598	397	506	273	145
16	81	103	102	186	112	132	258	192	1740	914	159	326
17	84	255	99	165	108	126	196	163	761	1530	231	158
18	80	138	97	152	131	126	181	150	222	319	236	136
19	105	105	98	144	154	123	171	141	375	242	136	126
20	97	106	97	132	167	120	171	142	2500	915	125	125
21	128	121	97	123	1390	497	164	166	3750	982	120	124
22	166	100	97	123	494	515	155	130	1460	507	117	606
23	95	98	99	121	228	1260	151	146	568	421	122	248
24	87	99	106	118	185	784	146	131	327	247	124	162
25	81	94	100	115	156	321	141	113	253	214	120	595
26	80	94	93	116	148	247	138	112	215	228	112	4700
27	84	1060	95	123	147	210	133	108	183	333	196	617
28	85	734	98	124	637	194	131	105	185	182	125	589
29	83	223	113	116	—	174	133	103	244	178	117	676
30	84	170	105	118	—	326	129	103	170	266	142	1880
31	87	—	296	132	—	231	—	102	—	514	146	—
TOTAL	5115	6225	3465	5921	6187	8570	10682	9408	15151	15748	4798	13580
MEAN	165	208	112	191	221	276	356	303	505	508	155	453
MAX	1320	1060	296	803	1390	1260	3220	1380	3750	1830	381	4700
MIN	72	89	93	115	108	120	129	102	93	153	112	98
CFSM	.91	1.14	.62	1.05	1.21	1.52	1.96	1.67	2.78	2.79	.85	2.49
IN.	1.05	1.27	.71	1.21	1.26	1.75	2.18	1.92	3.10	3.22	.98	2.78

CAL YR 1988 TOTAL 66383 MEAN 181 MAX 3180 MIN 48 CFSM 1.00 IN 13.57
WTR YR 1989 TOTAL 104850 MEAN 287 MAX 4700 MIN 72 CFSM 1.58 IN 21.43

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1983 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 1983 to current year.

DISSOLVED OXYGEN: November 1983 to current year.

INSTRUMENTATION.--Water-quality monitor. Water Temperature and Dissolved Oxygen are recorded hourly.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 30.0°C July 19, 20, 21, 1986; minimum recorded, 0.5°C Jan. 21, 1985.

DISSOLVED OXYGEN: Maximum recorded, 13.2 mg/L Jan. 8, 1988; minimum recorded, 0.7 mg/L Mar. 13, 1986.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 29.0°C Aug. 24; minimum recorded, 4.0°C Feb. 24.

DISSOLVED OXYGEN: Maximum recorded, 11.7 mg/L Feb. 24; minimum recorded, 5.5 mg/L June 2, Sept. 3.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
04...	1400	374	97	93	7.00	6.90	20.5	24.5	7.3	83
NOV										
01...	1640	184	171	174	7.20	7.10	14.0	21.5	8.6	86
DEC										
08...	1410	100	239	241	7.20	7.50	10.0	23.5	10.4	94
JAN										
03...	1000	153	200	205	7.20	7.50	10.5	12.0	9.8	90
FEB										
09...	0950	143	199	199	7.00	7.30	7.0	-1.0	10.8	89
MAR										
15...	1830	134	254	254	7.50	7.30	18.0	21.0	8.4	90
APR										
05...	1300	4480	63	61	6.50	6.80	15.5	21.0	8.1	83
MAY										
03...	0950	253	140	137	7.20	7.50	17.0	16.0	8.3	87
JUN										
08...	0850	125	208	--	7.20	7.50	21.0	23.0	7.0	81
JUL										
12...	2000	164	205	203	7.30	7.50	26.5	23.0	6.9	87
AUG										
03...	0940	176	186	189	7.20	7.10	22.0	31.0	6.9	80
SEP										
12...	1130	258	112	115	6.98	6.90	24.0	30.0	6.7	81

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
04...	200	2.2	49000	18	166	1.33	0.050	0.330	7.6
NOV									
01...	26	4.6	79000	29	14	2.10	0.140	0.220	6.6
DEC									
08...	7.0	0.9	--	47	5	3.40	0.060	0.830	<1.0
JAN									
03...	13	2.9	260	42	10	0.650	0.250	0.560	6.4
FEB									
09...	17	2.6	130	34	6	2.90	0.050	0.540	3.4
MAR									
15...	11	2.2	490	38	12	4.10	0.120	0.430	3.3
APR									
05...	240	3.6	33000	13	287	0.420	0.160	0.410	12
MAY									
03...	39	1.5	17000	30	24	1.68	0.040	0.160	4.4
JUN									
08...	30	0.5	--	34	17	2.71	0.070	0.370	5.0
JUL									
12...	12	1.0	490	35	9	3.65	0.040	0.260	1.6
AUG									
03...	22	1.8	--	33	25	2.00	0.040	0.220	3.5
SEP									
12...	170	2.6	11000	17	156	1.39	0.060	0.220	7.1

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.5	21.0	14.0	13.0	9.5	7.5	11.5	10.0	13.0	10.0	10.5	9.5
2	22.0	20.5	14.5	12.0	9.0	7.5	11.5	10.0	—	—	10.5	10.0
3	21.5	21.0	15.0	12.5	9.0	6.5	11.5	10.5	—	—	10.5	10.0
4	21.0	19.5	15.0	13.0	10.0	7.5	—	—	—	—	11.0	10.5
5	19.0	17.5	—	—	10.0	7.5	—	—	—	—	12.0	11.0
6	—	—	—	—	9.5	7.0	11.0	7.5	—	—	13.5	12.5
7	—	—	13.5	11.5	10.0	7.5	13.0	10.5	—	—	12.0	9.5
8	—	—	13.5	11.5	11.0	8.5	14.0	12.5	—	—	9.5	8.5
9	—	—	15.5	13.5	11.0	10.0	13.0	11.0	8.5	6.5	12.0	7.5
10	16.5	14.0	16.5	15.0	10.0	8.5	11.0	9.5	7.5	5.0	13.0	9.0
11	17.0	14.5	16.0	14.0	9.5	8.5	10.5	9.5	8.5	4.5	14.0	10.0
12	16.5	14.5	14.0	12.5	8.5	6.5	11.0	10.0	10.0	6.0	15.5	11.5
13	15.0	13.0	14.5	12.5	7.0	5.0	11.5	10.5	12.5	8.0	15.5	13.0
14	14.5	11.5	15.0	12.5	8.0	5.0	11.0	8.5	14.5	11.0	17.0	13.0
15	14.5	11.5	15.5	13.5	10.0	7.5	9.5	8.5	16.5	12.5	18.0	15.5
16	15.5	12.0	17.0	14.5	10.0	8.5	10.0	8.5	17.0	13.5	18.5	15.5
17	17.0	14.0	—	—	8.5	6.5	9.0	7.5	16.0	11.0	17.5	15.0
18	18.0	15.0	—	—	6.5	5.0	8.5	6.0	10.5	8.0	19.5	15.0
19	18.5	17.0	—	—	7.5	4.5	—	—	8.5	7.5	19.0	15.5
20	16.5	15.0	—	—	8.5	5.5	—	—	9.0	7.5	16.5	14.0
21	16.0	15.0	—	—	10.0	7.5	—	—	10.5	8.5	14.0	13.0
22	15.0	13.0	13.0	11.5	12.5	9.5	—	—	10.5	9.0	13.0	11.5
23	15.0	12.0	13.0	11.5	14.0	12.0	9.0	6.0	9.0	5.5	11.0	8.5
24	16.0	14.0	13.0	11.5	15.5	13.5	10.0	7.5	6.5	4.0	11.5	8.5
25	15.0	12.5	13.5	11.0	15.0	12.5	11.0	7.5	8.0	4.5	14.5	11.0
26	14.5	13.0	14.5	11.5	12.0	10.0	11.5	8.5	9.5	6.0	16.5	13.0
27	15.5	13.5	—	—	11.5	9.5	13.0	11.0	11.5	8.5	18.0	14.0
28	17.0	15.0	—	—	12.0	11.0	11.0	9.0	11.0	10.0	19.0	15.5
29	17.5	15.5	11.0	9.0	10.5	8.5	12.0	9.0	—	—	21.0	17.5
30	17.0	15.5	10.0	8.5	9.0	8.0	12.5	10.5	—	—	19.5	18.5
31	16.0	13.5	—	—	10.0	9.0	12.5	10.0	—	—	18.0	15.5
MONTH	22.5	11.5	17.0	8.5	15.5	4.5	14.0	6.0	17.0	4.0	21.0	7.5

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.5	13.0	21.5	19.0	26.5	22.0	24.5	22.5	25.5	24.0	26.5	25.0
2	16.5	12.5	19.5	18.5	26.5	23.0	23.5	22.5	26.5	24.0	28.0	24.5
3	16.0	14.0	19.5	17.0	26.0	23.0	23.0	22.0	27.0	24.0	26.5	24.5
4	17.5	15.5	18.0	17.0	25.0	23.0	24.5	22.5	27.5	24.0	26.0	23.5
5	16.5	15.5	18.5	17.0	24.5	22.5	23.5	23.0	28.0	24.0	24.5	22.5
6	16.0	14.5	19.5	17.5	23.0	21.5	24.5	23.0	28.0	24.5	23.0	22.0
7	15.0	13.5	19.0	16.5	23.0	21.0	25.5	23.0	27.5	25.0	24.5	22.0
8	13.5	12.5	18.5	15.0	22.0	21.0	25.5	22.5	25.5	22.5	26.0	22.5
9	12.5	12.0	17.0	16.0	23.0	21.0	26.0	22.5	23.5	20.5	26.0	23.0
10	12.5	11.5	18.0	16.5	24.5	20.5	26.0	24.0	24.0	20.5	26.5	23.0
11	13.0	10.5	18.0	16.0	24.5	21.0	27.0	24.0	24.5	21.0	25.5	23.0
12	14.0	11.0	18.0	15.0	25.5	22.0	27.0	24.5	24.5	21.0	25.0	23.0
13	15.5	12.0	17.5	15.0	26.0	22.5	26.0	24.0	24.5	21.5	25.5	23.5
14	16.0	13.0	19.5	16.5	26.5	23.0	26.0	24.0	25.0	22.5	26.5	23.5
15	15.5	15.0	20.0	18.0	—	—	25.0	24.0	24.5	23.0	25.5	23.5
16	18.0	14.5	21.0	17.5	—	—	24.5	24.0	25 5	23.0	25.0	23.0
17	18.5	15.0	21.0	17.0	23.0	21.0	24.5	23.5	25.5	23.0	24.0	21.5
18	19.5	15.5	21.5	18.0	24.0	21.0	24.5	23.5	25.5	23.0	23.5	20.5
19	20.5	16.5	20.5	19.0	23.0	22.0	24.5	23.0	26.0	23.0	23.0	20.0
20	18.5	16.5	21.5	19.0	22.0	20.5	23.5	23.0	26.5	23.0	23.0	20.0
21	19.0	15.5	23.0	19.5	22.0	20.5	24.5	22.5	27.0	23.5	23.0	21.5
22	20.0	16.0	24.0	20.0	22.5	21.5	24.5	23.5	28.0	24.0	22.5	21.0
23	20.5	17.0	24.5	21.0	23.0	21.0	25.0	23.0	28.5	24.5	23.5	21.0
24	21.5	18.0	24.0	20.5	24.5	22.0	25.5	24.0	29.0	25.0	21.0	18.5
25	22.5	18.5	24.5	20.5	25.0	22.5	26.5	23.5	28.5	25.0	18.0	15.5
26	23.0	19.0	25.5	22.0	26.0	23.0	26.5	24.5	28.0	25.0	16.5	14.5
27	23.0	19.5	26.0	22.5	26.0	23.5	27.0	24.5	27.0	24.5	18.5	16.5
28	23.0	20.0	25.5	21.5	24.5	23.5	27.5	24.5	27.5	24.5	18.0	16.0
29	22.5	20.0	24.0	20.5	25.0	23.0	27.5	24.5	27.0	25.0	17.5	16.0
30	22.5	20.0	24.0	20.5	24.0	23.0	27.0	25.0	26.5	25.0	19.0	17.5
31	—	—	25.5	21.0	—	—	25.5	24.0	26.5	24.5	—	—
MONTH	23.0	10.5	26.0	15.0	26.5	20.5	27.5	22.0	29.0	20.5	28.0	14.5
YEAR	29.0	4.0										

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.0	6.9	9.1	8.2	10.6	10.2	10.0	9.8	10.4	9.4	10.4	10.1
2	7.4	5.9	8.7	8.2	10.7	10.4	10.1	9.7	—	—	10.4	10.2
3	7.5	7.2	8.8	8.2	11.0	10.4	10.1	9.9	—	—	10.4	10.2
4	7.6	7.3	8.6	8.1	10.6	9.9	—	—	—	—	10.1	10.0
5	7.9	7.3	—	—	10.6	10.0	—	—	—	—	10.2	9.5
6	—	—	—	—	10.7	10.1	11.0	10.2	—	—	9.5	9.3
7	—	—	9.2	8.8	10.6	10.0	10.2	9.5	—	—	10.2	9.3
8	—	—	9.6	9.1	10.4	9.8	9.5	9.1	—	—	10.6	10.2
9	—	—	9.2	8.6	10.1	9.7	9.9	9.2	11.1	10.7	10.8	10.2
10	8.6	8.0	8.5	7.9	10.5	9.8	10.4	9.9	11.6	11.0	10.4	9.5
11	8.5	7.9	8.6	7.9	10.3	10.0	10.5	10.1	11.6	10.7	10.0	9.5
12	8.8	7.9	9.3	8.6	10.9	10.1	10.2	10.0	11.2	10.3	9.6	8.9
13	9.2	8.3	9.1	8.5	11.5	10.7	10.2	9.6	10.7	9.6	9.3	8.7
14	9.6	8.7	9.3	8.5	11.5	10.6	10.8	10.1	10.1	9.1	9.3	8.6
15	9.7	8.8	9.2	8.4	10.9	10.1	11.0	10.7	10.0	8.8	8.8	8.3
16	9.5	8.5	8.9	8.3	10.5	10.0	10.9	10.5	10.0	8.7	9.1	8.4
17	9.3	8.3	—	—	11.2	10.2	11.1	10.7	9.8	8.7	9.3	8.5
18	8.9	8.0	—	—	11.6	10.8	11.2	10.8	11.0	9.9	9.3	8.3
19	8.3	7.8	—	—	11.6	10.9	—	—	11.4	11.0	9.5	8.2
20	8.8	8.0	—	—	11.6	10.8	—	—	11.0	10.7	9.4	8.4
21	8.6	8.1	—	—	11.1	10.3	—	—	10.9	9.4	9.6	8.9
22	8.9	8.4	9.7	8.7	10.7	9.6	—	—	10.1	9.6	9.8	9.1
23	9.0	8.2	9.7	9.0	9.8	9.1	11.0	10.5	11.0	10.0	10.8	8.8
24	8.5	7.8	9.7	9.0	9.4	8.7	10.9	10.3	11.7	11.1	10.8	9.8
25	8.8	7.8	9.9	9.0	9.8	8.7	10.9	10.1	11.6	11.0	10.0	9.3
26	8.9	8.1	9.9	8.7	10.6	9.2	10.8	10.0	11.1	10.4	9.5	9.0
27	8.9	8.1	—	—	10.9	9.9	10.1	9.5	10.4	9.8	9.3	8.6
28	8.5	7.7	—	—	10.2	9.6	10.7	9.7	10.2	9.8	8.9	8.3
29	8.4	7.5	10.2	9.5	11.0	9.7	10.7	9.7	—	—	8.6	8.0
30	8.5	7.5	10.4	10.1	10.9	10.4	10.0	9.5	—	—	8.3	7.9
31	8.3	7.6	—	—	10.4	9.9	10.6	9.5	—	—	8.8	7.9
MONTH	9.7	5.9	10.4	7.9	11.6	8.7	11.2	9.1	11.7	8.7	10.8	7.9

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.6	8.5	7.8	6.5	8.6	6.7	7.5	6.9	7.2	6.6	6.7	6.2
2	9.7	9.0	8.0	7.0	7.4	5.5	7.7	7.1	7.2	6.9	6.9	5.7
3	9.1	8.9	8.5	8.0	7.5	5.8	7.8	7.0	7.1	6.7	6.3	5.5
4	8.9	8.4	8.5	8.3	7.4	6.4	7.1	6.4	6.9	6.6	6.6	5.7
5	8.4	7.9	8.5	8.3	7.4	6.4	7.3	6.7	7.0	6.6	7.2	5.8
6	9.0	8.4	8.6	7.9	7.2	6.6	7.3	6.1	6.8	6.5	6.7	6.4
7	9.5	8.8	8.6	8.2	7.4	6.9	6.6	5.9	6.9	6.3	6.9	6.5
8	9.5	9.3	9.0	8.4	7.2	6.9	6.8	6.4	7.8	6.6	7.2	6.4
9	9.5	9.0	8.9	8.0	7.4	7.2	6.9	6.6	8.1	7.4	7.2	6.2
10	9.9	9.4	8.6	7.7	7.8	7.1	7.4	6.7	8.2	7.2	7.3	6.1
11	10.1	9.7	8.3	8.1	7.8	7.0	7.3	6.9	8.3	7.0	6.6	5.8
12	10.1	9.5	8.4	8.1	7.9	7.0	7.3	7.0	8.5	7.0	6.7	6.3
13	9.8	9.2	8.5	8.1	8.0	6.9	7.3	7.0	8.3	7.0	6.9	6.4
14	9.5	9.0	8.3	7.7	8.1	6.9	7.6	7.1	8.2	6.8	6.8	6.4
15	9.2	8.6	7.9	6.2	—	—	7.4	6.4	7.5	5.8	6.8	6.5
16	9.0	8.6	8.0	7.6	—	—	7.5	6.5	7.4	6.5	7.0	6.1
17	9.0	8.5	8.1	7.9	7.5	7.3	7.4	6.6	7.4	6.0	7.3	6.8
18	8.8	8.2	8.0	7.4	7.4	7.1	7.4	7.2	7.0	5.8	7.5	7.1
19	8.6	8.1	7.9	7.5	7.5	5.8	7.3	6.9	7.0	6.7	7.8	7.2
20	8.6	8.1	7.9	7.5	7.9	7.1	7.8	7.2	7.4	6.5	7.8	7.3
21	9.0	8.5	7.8	7.1	7.4	6.4	7.5	7.3	7.3	6.6	7.6	7.3
22	8.9	8.3	7.4	6.6	7.7	7.2	7.7	7.3	7.4	6.5	7.6	6.9
23	8.7	8.0	7.5	6.7	7.7	7.5	7.7	7.3	7.4	6.4	7.5	7.2
24	8.4	7.7	7.7	7.1	7.7	7.2	7.5	7.3	7.1	6.4	8.2	7.5
25	8.5	7.7	8.0	7.2	7.3	6.9	7.5	7.2	7.4	6.4	8.9	8.1
26	8.4	7.7	7.9	7.0	6.9	6.8	7.5	7.2	7.4	6.4	8.7	7.6
27	8.6	7.7	8.1	6.9	7.2	6.9	7.5	6.3	7.0	5.9	8.0	7.8
28	8.6	7.6	8.4	6.9	7.4	7.0	7.2	6.9	7.2	6.0	8.9	7.9
29	8.6	7.5	9.0	7.1	7.4	6.2	7.1	6.8	7.4	6.4	8.5	8.1
30	8.6	7.3	8.9	7.2	7.5	7.0	7.1	6.8	6.7	6.1	8.4	7.8
31	—	—	8.7	7.0	—	—	7.1	6.4	6.9	6.2	—	—
MONTH	10.1	7.3	9.0	6.2	8.6	5.5	7.8	5.9	8.5	5.8	8.9	5.5
YEAR	11.7	5.5										

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.

LOCATION.--Lat 33°29'04", long 83°57'29", Newton-Henry County line, Hydrologic Unit 03070103, at bridge on State Highway 81, 0.2 mi south of State Highway 212, and 0.5 mi upstream from Snapping Shoals Creek.

DRAINAGE AREA.--465 mi^2.

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Streamflow includes some water diverted from the Chattahoochee River by DeKalb County and City of Atlanta for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperatue, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
04...	1015	1350	77	72	7.00	6.90	21.0	22.0	7.3	83
NOV										
01...	1300	260	188	187	7.30	7.30	13.0	21.0	9.1	88
DEC										
08...	1020	225	146	148	--	7.30	8.0	17.0	10.4	89
JAN										
03...	1215	37	105	103	7.30	7.20	10.0	13.0	9.1	82
FEB										
09...	1120	40	108	112	7.10	7.10	7.5	1.5	10.6	89
MAR										
16...	1000	35	148	147	7.00	7.20	16.5	17.5	8.2	85
APR										
05...	1030	5800	94	91	6.60	7.00	16.0	20.0	8.2	84
MAY										
03...	1120	980	76	75	7.00	7.30	18.0	20.5	7.8	83
JUN										
08...	1030	490	117	--	7.10	7.10	22.0	24.0	7.0	82
JUL										
13...	0945	490	126	151	7.23	7.60	25.0	30.0	6.7	82
AUG										
03...	1150	480	111	112	7.10	7.10	25.0	33.0	6.2	76
SEP										
12...	0845	990	198	203	7.35	7.30	23.5	26.5	6.0	72

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT						
04...	250	26	2.2	49000	17	204
NOV						
01...	11	12	0.7	330	32	1
DEC						
08...	10	13	1.2	--	30	4
JAN						
03...	26	15	2.4	460	22	10
FEB						
09...	21	15	2.6	2300	22	9
MAR						
16...	12	14	2.3	130	26	8
APR						
05...	280	24	3.7	7900	18	359
MAY						
03...	94	26	2.3	13000	18	26
JUN						
08...	49	18	0.8	--	24	20
JUL						
13...	21	20	0.8	790	27	19
AUG						
03...	30	10	1.4	--	21	24
SEP						
12...	72	8	1.3	1300	35	137

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
04...	0.650	0.050	0.85	0.90	1.5	0.380	11
NOV							
01...	2.70	<0.030	--	0.50	3.2	0.220	3.8
DEC							
08...	1.70	0.050	0.15	0.20	1.9	0.400	2.2
JAN							
03...	1.51	0.390	0.01	0.40	1.9	0.330	6.4
FEB							
09...	1.01	<0.030	--	0.50	1.5	0.240	3.4
MAR							
16...	1.75	0.090	0.41	0.50	2.3	0.220	2.7
APR							
05...	0.930	0.100	1.9	2.0	2.9	1.07	14
MAY							
03...	0.510	0.060	0.74	0.80	1.3	0.210	6.1
JUN							
08...	1.03	0.060	0.44	0.50	1.5	0.320	4.4
JUL							
13...	1.05	<0.030	--	0.40	1.4	0.150	1.4
AUG							
03...	1.20	0.110	0.49	0.60	1.8	0.170	3.9
SEP							
12...	2.40	<0.030	--	0.41	2.8	0.370	4.5

02206500 YELLOW RIVER NEAR SNELLVILLE, GA.

LOCATION.--Lat 33°51'11", long 84°04'45", Gwinnett County, Hydrologic Unit 03070103, at McDaniels Bridge on Killian Hill Road, 3.2 mi west of Snellville, 4 mi downstream from Sweetwater Creek and 7.5 mi upstream from Stone Mountain Creek.
DRAINAGE AREA.--134 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to September 1971. October 1987 to current year.
REVISED RECORDS.--WSP 1032: 1943(M), WSP 1112: 1944-45(M), WSP 1384: 1949(M), 1952(M), drainage area.
GAGE.--Water-stage recorder. Altitude of gage is 810 ft (by barometer). Prior to Nov. 4, 1952, nonrecording gage at same site and datum.
REMARKS.--Estimated daily discharges: Oct. 4-20, Nov. 12, 13, Nov. 23-Dec. 29, Feb. 7, 8, Mar. 5-16, May 24, June 18, 19, and July 10-12. Records good, except for Oct. 4-20, Nov. 12, 13, Nov. 23-Dec. 29, Feb. 7, 8, Mar. 5-16, May 24, June 18, 19, and July 10-12, which are fair to poor.
AVERAGE DISCHARGE.--31 years (1942-1971, 1988-89), 170 ft^3/s, 17.23 in/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,500 ft^3/s, Nov. 29, 1948, gage height, 19.4, from floodmark; minimum discharge, 1.5 ft^3/s, Oct. 9, 1954.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 2,100 ft3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 21	0500	2,270	8.34	July 16	2030	3,030	10.52
July 3	1400	2,940	10.25	July 20	1830	*3,570	*11.93

Minimum daily discharge, 48 ft^3/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	170	140	229	99	460	162	514	103	215	457	114
2	441	104	120	153	92	283	158	760	100	190	499	102
3	377	81	110	237	90	288	155	230	98	1310	282	93
4	610	87	98	293	93	262	291	170	99	1910	189	84
5	290	499	92	173	129	420	1120	189	122	515	165	82
6	140	230	88	201	155	360	498	301	146	514	149	90
7	100	132	86	201	180	290	312	212	151	379	142	97
8	88	106	88	153	140	240	452	188	126	284	129	111
9	82	114	88	150	122	210	661	342	138	235	121	94
10	74	100	84	167	114	190	369	501	119	370	116	84
11	68	108	84	145	113	180	303	322	103	200	113	140
12	62	88	80	136	115	160	285	242	95	140	110	247
13	58	78	78	360	114	150	276	203	97	152	108	138
14	56	74	78	245	106	140	268	192	112	180	106	107
15	52	72	80	213	107	120	326	346	212	173	297	252
16	52	84	82	179	108	110	337	259	742	705	169	504
17	52	199	76	147	103	111	284	187	983	2290	127	214
18	50	137	78	130	135	112	243	168	360	479	112	124
19	68	98	74	122	170	111	204	152	200	330	104	101
20	66	90	74	114	161	107	178	147	1020	2660	99	94
21	106	99	74	106	662	265	170	144	1770	1760	95	97
22	113	89	74	105	584	318	165	134	991	762	95	572
23	77	88	74	98	273	576	164	139	735	438	86	440
24	66	86	76	94	221	593	153	126	487	325	84	208
25	61	84	76	95	195	311	145	120	308	242	106	522
26	59	80	76	92	184	255	139	117	244	248	161	1640
27	68	430	78	117	177	223	130	116	202	214	1150	557
28	74	420	78	114	521	190	125	110	299	179	374	422
29	67	200	76	107	—	165	123	105	588	154	165	625
30	56	160	81	110	—	228	121	106	308	144	138	1030
31	93	—	195	115	—	196	—	104	—	309	130	—
TOTAL	3674	4387	2736	4901	5263	7624	8317	6946	11058	18006	6178	8985
MEAN	119	146	88.3	158	188	246	277	224	369	581	199	300
MAX	610	499	195	360	662	593	1120	760	1770	2660	1150	1640
MIN	48	72	74	92	90	107	121	104	95	140	84	82
CFSM	.89	1.09	.66	1.18	1.40	1.84	2.07	1.67	2.75	4.34	1.49	2.24
IN.	1.02	1.22	.76	1.36	1.46	2.12	2.31	1.93	3.07	5.00	1.72	2.49

CAL YR 1988	TOTAL	46142	MEAN	126	MAX	1850	MIN	19	CFSM	.94	IN	12.81
WTR YR 1989	TOTAL	88075	MEAN	241	MAX	2660	MIN	48	CFSM	1.80	IN	24.45

02206500 YELLOW RIVER NEAR SNELLVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
NOV										
01...	1100	164	119	118	7.00	7.00	12.0	15.0	9.1	87
JAN										
05...	0730	178	104	110	7.30	7.20	6.5	0.0	11.0	91
MAR										
15...	1730	116	155	162	7.50	7.40	16.0	26.0	9.2	95
MAY										
03...	0800	215	95	96	--	7.40	16.5	11.5	8.4	88
JUL										
12...	1830	135	130	128	7.20	7.20	24.5	24.5	7.0	86
SEP										
12...	0645	276	95	97	7.12	7.20	23.5	24.5	7.4	90

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV								
01...	38	3.6	3300	25	0.870	0.140	0.080	6.8
JAN								
05...	31	2.9	490	25	0.240	0.050	0.060	3.8
MAR								
15...	8.0	2.2	45	35	1.74	0.090	0.120	2.8
MAY								
03...	42	1.6	1300	25	0.820	0.030	0.070	5.5
JUL								
12...	12	0.6	110	32	1.02	<0.030	0.060	1.7
SEP								
12...	100	2.3	14000	20	0.840	<0.030	0.140	5.6

02207300 YELLOW RIVER AT MILSTEAD, GA.

LOCATION.–Lat 33°41'23", long 83°59'49", Rockdale County, Hydrologic Unit 03070103, at bridge on State Highway 20 at Milstead, 2.2 mi northeast of Conyers.
DRAINAGE AREA.–236 mi^2, approximately.
PERIOD OF RECORD.–July 1974 to current year.
REVISED RECORDS.–WDR GA-84-1: Drainage Area.
REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH (STANDARD UNITS)	PH LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
04...	0950	1070	85	88	7.10	7.00	21.0	18.0	7.5	86
NOV										
01...	1200	280	160	158	7.20	7.80	13.0	18.5	9.2	90
DEC										
08...	0910	165	130	132	–	7.30	7.5	9.5	11.2	95
JAN										
03...	1115	290	100	101	7.30	7.40	10.0	13.0	9.6	87
FEB										
09...	1030	205	110	112	7.30	7.30	7.5	0.0	10.4	87
MAR										
16...	0900	190	120	122	6.80	7.00	15.0	17.0	8.5	86
APR										
05...	0940	1350	75	74	–	7.00	16.0	18.0	8.2	85
MAY										
03...	1030	430	82	82	7.10	7.60	17.5	18.5	8.0	85
JUN										
08...	0930	175	136	117	7.20	7.30	22.0	23.0	6.6	77
JUL										
13...	0850	270	105	104	7.20	7.40	25.0	23.0	6.4	79
AUG										
03...	1050	610	74	74	7.10	6.90	24.5	32.5	7.1	87
SEP										
12...	0745	440	122	125	7.20	7.20	23.5	25.0	6.6	79

02207300 YELLOW RIVER AT MILSTEAD, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
04...	130	1.6	4900	21	0.450	0.050	0.160	5.9
NOV								
01...	22	1.6	230	31	1.56	<0.030	0.060	3.9
DEC								
08...	10	1.3	--	28	1.23	0.050	0.070	2.1
JAN								
03...	34	2.4	330	24	0.950	0.230	0.070	4.6
FEB								
09...	14	2.6	700	25	1.00	<0.030	0.100	2.7
MAR								
16...	14	2.1	50	27	1.15	0.030	0.120	2.5
APR								
05...	200	2.8	7000	17	0.650	0.070	0.120	6.6
MAY								
03...	60	1.9	2200	22	0.560	<0.030	0.120	4.7
JUN								
08...	10	1.4	--	34	0.890	0.030	0.140	2.9
JUL								
13...	18	0.7	490	25	0.930	0.060	0.080	1.5
AUG								
03...	110	1.7	--	18	0.450	0.050	0.170	4.9
SEP								
12...	92	1.7	1700	27	0.980	0.040	0.140	5.7

02208005 YELLOW RIVER NEAR STEWART, GA.

LOCATION.–Lat 33°26'26", long 83°52'43", Newton County, Hydrologic Unit 03070103, at bridge on State Highway 212, 2.5 mi northwest of Stewart.

DRAINAGE AREA.–440 mi^2, approximately.

PERIOD OF RECORD.–July 1974 to current year.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
04...	1140	1230	71	71	7.00	6.90	20.5	22.5	7.6	86
NOV										
01...	1340	235	121	118	7.30	7.20	14.0	22.5	9.5	94
DEC										
08...	1050	315	100	103	7.30	7.30	7.0	18.0	10.9	91
JAN										
03...	1345	590	88	90	7.30	7.30	10.0	17.0	10.3	93
FEB										
09...	1140	420	98	100	7.30	7.30	8.0	2.0	11.2	94
MAR										
16...	1020	390	95	94	7.00	7.40	16.0	18.0	8.7	89
APR										
05...	1100	1250	77	76	6.70	7.00	16.0	20.0	8.5	88
MAY										
03...	1140	1800	69	67	7.20	7.50	18.0	21.0	8.5	91
JUN										
08...	1050	360	118	116	7.20	7.30	22.0	23.0	7.2	84
JUL										
13...	1000	560	77	75	7.20	7.50	25.0	30.0	6.9	85
AUG										
03...	1210	1250	78	76	7.20	7.00	25.0	34.0	6.6	81
SEP										
12...	0910	490	112	114	7.40	7.30	23.5	26.5	7.0	84

02208005 YELLOW RIVER NEAR STEWART, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT						
04...	150	--	2.0	3300	21	120
NOV						
01...	8.0	--	0.9	940	27	<1
DEC						
08...	11	--	1.4	--	24	3
JAN						
03...	28	--	2.1	170	20	21
FEB						
09...	13	--	1.6	80	23	10
MAR						
16...	17	--	1.6	230	21	12
APR						
05...	120	--	2.3	17000	20	156
MAY						
03...	120	--	2.2	7900	19	97
JUN						
08...	43	--	0.5	--	30	<1
JUL						
13...	26	--	0.7	140	20	24
AUG						
03...	66	--	1.2	--	16	85
SEP						
12...	19	5	1.5	490	28	24

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
04...	0.450	<0.030	--	--	--	0.160	6.2
NOV							
01...	0.910	<0.030	--	--	--	0.040	3.0
DEC							
08...	0.830	<0.030	--	--	--	0.070	1.8
JAN							
03...	1.04	0.420	--	--	--	0.070	4.8
FEB							
09...	0.880	<0.030	--	--	--	0.100	2.8
MAR							
16...	0.850	0.040	--	--	--	0.100	2.7
APR							
05...	0.630	0.070	--	--	--	0.190	6.4
MAY							
03...	0.490	<0.030	--	--	--	0.170	7.8
JUN							
08...	0.880	<0.030	--	--	--	0.180	3.2
JUL							
13...	0.550	<0.030	--	--	--	0.080	1.8
AUG							
03...	0.520	0.030	--	--	--	0.150	4.4
SEP							
12...	0.800	<0.030	--	0.10	0.90	0.130	2.0

02208450 ALCOVY RIVER ABOVE COVINGTON, GA.

LOCATION.--Lat 33°38'24", long 83°46'45", Newton County, Hydrologic Unit 03070103, at bridge on Alcovy Road, 400 ft downstream from city of Covington water works intake structure, 200 ft downstream from Strouds Creek, 200 ft upstream from Georgia Railroad bridge, and 6 mi northeast of Covington.

DRAINAGE AREA.--185 mi^2, approximately, includes that of Strouds Creek.

PERIOD OF RECORD.--January 1972 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 650 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Prior to Oct. 1986, at site 400 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Aug. 11-Sept. 12. Records good, except those for the period of missing gage-height record Aug. 11-Sept. 12, which are poor. Discharge affected by diversions due to irrigation and by the city of Covington.

AVERAGE DISCHARGE.--17 years, 237 ft^3/s, 17.40 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,530 ft^3/s, Mar. 16, 1976, gage height, 14.79 ft; minimum daily discharge, 0.56 ft^3/s, July 21-22, 1986, but may have been less during a period of extensive diversion, June 19 through Sept. 12, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 22	0800	*1,780	*9.72

Minimum daily discharge, 48 ft^3/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	82	216	136	98	232	164	104	59	181	330	120
2	150	95	166	155	95	287	144	151	57	149	407	90
3	447	99	141	154	94	260	134	212	56	143	450	70
4	436	86	127	158	94	243	147	237	56	167	378	100
5	298	116	118	166	102	249	369	162	61	263	259	90
6	178	136	111	146	115	268	656	155	76	458	198	80
7	123	185	106	137	130	274	667	169	76	457	168	85
8	99	158	104	139	126	253	510	148	89	423	148	90
9	88	118	101	131	118	215	468	159	89	300	135	100
10	81	109	98	122	103	187	551	268	81	256	126	85
11	75	103	96	118	96	171	541	268	75	180	115	80
12	70	97	94	117	94	159	416	203	67	143	105	75
13	64	93	90	160	92	150	319	151	60	129	95	74
14	60	89	89	224	90	142	266	133	55	116	90	74
15	58	85	88	231	88	135	270	146	57	121	130	72
16	58	83	89	196	87	132	280	171	87	190	160	82
17	57	90	88	173	86	124	253	160	173	633	140	132
18	59	118	85	150	87	122	212	125	287	994	130	110
19	57	123	83	136	95	120	187	109	472	836	120	85
20	56	108	81	127	108	114	170	103	297	535	110	75
21	64	105	81	119	154	136	158	100	430	754	100	73
22	74	101	81	113	237	234	149	97	882	1610	90	314
23	79	92	82	108	295	370	140	97	1270	1250	80	580
24	73	89	84	105	254	455	131	100	1050	966	75	589
25	64	87	86	102	186	437	125	90	842	731	70	441
26	62	85	86	100	161	336	116	82	469	527	100	410
27	62	134	81	100	149	247	108	76	263	367	125	738
28	63	305	80	102	170	206	103	71	198	280	150	1060
29	63	396	80	103	—	183	99	67	174	233	115	600
30	64	333	79	100	—	184	95	63	181	235	90	422
31	68	—	102	100	—	179	—	61	—	318	70	—
TOTAL	3298	3900	3093	4228	3604	6804	7948	4238	8089	13945	4859	6996
MEAN	106	130	99.8	136	129	219	265	137	270	450	157	233
MAX	447	396	216	231	295	455	667	268	1270	1610	450	1060
MIN	48	82	79	100	86	114	95	61	55	116	70	70
CFSM	.57	.70	.54	.74	.70	1.18	1.43	.74	1.46	2.43	.85	1.26
IN.	.66	.78	.62	.85	.72	1.37	1.60	.85	1.63	2.80	.98	1.41

CAL YR 1988	TOTAL	42363.0	MEAN	116	MAX	1150	MIN	1.6	CFSM	.63	IN	8.52
WTR YR 1989	TOTAL	71002.0	MEAN	195	MAX	1610	MIN	48	CFSM	1.05	IN	14.28

02209260 ALCOVY RIVER ABOVE STEWART, GA.

LOCATION.--Lat 33°26'58", long 83°49'42", Newton County, Hydrologic Unit 03070103, at bridge on Newton Factory Bridge Road, 2.6 mi northeast of Stewart.

DRAINAGE AREA.--250 mi^2, approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
04...	1200	54	54	6.90	6.80	20.5	22.5	7.6	86
NOV									
01...	1400	62	61	7.00	7.20	14.0	23.0	10.1	100
DEC									
08...	1110	54	54	7.60	7.10	7.0	20.0	11.6	97
JAN									
03...	1415	53	57	7.20	7.40	10.0	17.0	10.4	94
FEB									
09...	1210	53	54	7.40	7.10	9.0	3.0	11.2	97
MAR									
16...	1040	53	48	7.10	7.20	16.0	18.5	9.3	95
APR									
05...	1120	54	52	6.80	7.00	16.0	20.0	8.9	92
MAY									
03...	1200	58	59	7.40	7.80	18.5	21.0	8.5	92
JUN									
08...	1100	59	57	7.10	7.10	21.5	24.0	7.7	89
JUL									
13...	1020	58	56	7.30	7.50	25.0	30.5	7.7	95
AUG									
03...	1230	56	55	7.20	7.00	25.0	34.0	6.7	82
SEP									
12...	0930	62	62	7.47	7.30	23.5	27.0	7.3	87

02209260 ALCOVY RIVER ABOVE STEWART, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 04...	61	37	1.7	1300	11	41
NOV 01...	6.0	17	1.4	70	20	<1
DEC 08...	7.0	8	0.9	--	15	3
JAN 03...	9.0	14	1.7	130	15	5
FEB 09...	9.0	13	1.5	20	16	5
MAR 16...	8.0	14	1.6	<20	16	5
APR 05...	32	18	1.5	1300	15	22
MAY 03...	11	17	1.2	50	22	6
JUN 08...	14	20	0.3	--	20	1
JUL 13...	11	18	0.4	130	20	5
AUG 03...	27	20	1.0	--	16	16
SEP 12...	9.0	--	0.9	110	21	<1

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	0.300	0.070	0.43	0.50	0.80	0.120	6.2
NOV 01...	<0.020	<0.030	--	0.30	--	0.030	3.8
DEC 08...	0.190	<0.030	--	0.20	0.39	0.080	2.4
JAN 03...	--	0.100	0.0	0.10	--	0.050	4.9
FEB 09...	0.240	<0.030	--	0.30	0.54	0.100	2.7
MAR 16...	0.260	0.030	0.27	0.30	0.56	0.110	2.5
APR 05...	0.230	0.120	0.38	0.50	0.73	0.030	5.0
MAY 03...	0.250	0.030	0.37	0.40	0.65	0.040	3.8
JUN 08...	0.250	<0.030	--	0.20	0.45	0.150	3.0
JUL 13...	0.240	<0.030	--	0.40	0.64	0.080	2.0
AUG 03...	0.200	<0.030	--	0.50	0.70	0.120	4.8
SEP 12...	0.260	<0.030	--	--	--	0.140	2.4

02210500 OCMULGEE RIVER NEAR JACKSON, GA.

LOCATION.–Lat 33°18'27", long 83°50'18", Butts-Jasper County line, Hydrologic Unit 03070103, on right bank 500 ft upstream from bridge on State Highway 16, 0.5 mi upstream from Yellow Water Creek, 1 mi downstream from Lloyd Shoals Dam, and 7 mi east of Jackson.
DRAINAGE AREA.–1,420 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–May 1906 to September 1915, August 1939 to September 1960, October 1975 to September 1982, March 1987 to current year.
GAGE.–Water stage recorder. Datum of gage is 419.29 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1913, staff gages; Jan. 1 to Dec. 31, 1913, water-stage recorder; Jan. 1, 1914 to Dec. 31, 1915, staff gage; and Aug. 1, 1939 to Sept. 30, 1960 and Oct. 1, 1975 to Sept. 30, 1982, water-stage recorder, all at present site and datum.
REMARKS.–No estimated daily discharges. Records fair. Flow regulated by Lloyd Shoals Reservoir (see "Lakes and Reservoirs in the Altamaha River Basin," station 02210000).
AVERAGE DISCHARGE.–39 years (1906-15, 1939-60, 1975-82, 1988-89), 1,696 ft^3/s, 16.22 in/yr, unadjusted.
EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 56,600 ft^3/s, Nov. 28, 1948, gage height, 23.9; minimum daily discharge, 18 ft^3/s, Nov. 20, 1910.
EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known, 26.8 ft, Dec. 11, 1919, from graph based on gage readings, discharge, 69,000 ft^3/s, by computation of flow over dam.
EXTREMES FOR CURRENT YEAR.–Maximum discharge, 14,000 ft^3/s, June 22; gage height, 10.20 ft; minimum daily discharge, 383 ft^3/s, Oct. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	392	570	2430	1080	799	2020	685	1900	467	1500	1420	1380
2	1360	594	2680	1610	859	2050	546	2040	476	1360	1550	644
3	2990	612	1060	1790	904	1620	1620	2600	537	2200	1510	644
4	3070	912	942	1490	609	1700	1430	2580	685	3740	1500	638
5	2660	2310	839	1630	617	1860	2740	2490	1190	4520	1270	666
6	1620	1760	1030	1370	620	2080	4170	1060	1050	4570	976	645
7	1160	919	1310	1250	614	1930	7300	1070	1190	3910	1210	625
8	750	912	850	991	609	1420	4290	1220	1570	2820	982	632
9	564	1220	868	1260	842	1190	4250	1950	960	2740	657	658
10	629	1380	598	871	822	1140	4360	2410	970	2380	1030	645
11	659	1420	873	861	602	1050	4450	2540	691	1570	989	635
12	580	1050	598	1360	753	966	3460	2340	700	1650	813	617
13	527	578	592	968	845	959	2710	1710	713	1440	665	997
14	495	563	586	2200	798	1040	2670	1970	895	1840	683	1050
15	419	1240	1090	1740	720	885	2810	1580	1480	1530	694	1120
16	411	1420	1900	1450	741	821	2720	1780	2320	3330	679	623
17	387	1190	824	1350	887	824	2660	1570	3630	4670	897	1060
18	406	1390	760	1150	586	580	2370	1010	4300	5410	909	1170
19	456	586	874	1040	582	826	1010	1420	2790	6400	667	817
20	383	572	942	1080	1200	947	1070	829	2910	6440	1040	1760
21	478	1020	773	774	1750	1740	1380	627	5100	5750	962	2460
22	659	586	867	791	2600	1840	925	1020	13300	6180	1210	651
23	780	854	776	870	2970	2450	936	976	7570	6830	1260	764
24	536	829	1160	881	1400	2480	1330	999	5990	6690	793	833
25	548	575	589	861	1250	2490	941	820	6020	4430	788	2160
26	537	863	567	776	884	2480	862	643	3420	2120	645	3350
27	560	1820	1060	867	1270	2360	1170	651	2830	2770	644	4370
28	557	2430	894	790	1830	1980	1110	666	1670	2780	1250	4940
29	559	1910	603	778	—	1510	988	684	1890	2740	1440	4650
30	501	2000	841	783	—	1220	1000	534	1590	2680	1310	4490
31	590	—	984	870	—	1460	—	455	—	1960	1030	—
TOTAL	26223	34085	30780	35582	28963	47918	67963	44144	78904	108950	31473	45694
MEAN	846	1136	993	1148	1034	1546	2265	1424	2630	3515	1015	1523
MAX	3070	2430	2680	2200	2970	2490	7300	2600	13300	6830	1550	4940
MIN	383	563	586	774	582	580	546	455	467	1360	644	617
CFSM	.60	.80	.70	.81	.73	1.09	1.60	1.00	1.85	2.48	.72	1.07
IN.	.69	.89	.81	.93	.76	1.26	1.78	1.16	2.07	2.85	.82	1.20

CAL YR 1988 TOTAL 369443 MEAN 1009 MAX 9470 MIN 121 MEAN† 1006 CFSM† .71 IN† 9.64
WTR YR 1989 TOTAL 580679 MEAN 1591 MAX 13300 MIN 383 MEAN† 1602 CFSM† 1.13 IN† 15.35

†ADJUSTED FOR CHANGE IN CONTENTS IN LLOYD SHOALS RESERVOIR.

02210500 OCMULGEE RIVER NEAR JACKSON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH (STANDARD UNITS)	PH LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT										
04...	1240	2720	91	88	6.80	6.80	23.0	24.0	3.9	46
NOV										
01...	1430	553	99	97	7.00	7.00	17.0	24.0	7.3	77
DEC										
08...	1140	609	97	97	7.10	7.00	11.0	20.0	6.7	61
JAN										
03...	1545	2860	100	99	7.20	7.20	10.0	20.0	9.3	84
FEB										
09...	1240	609	95	94	7.30	7.20	11.0	4.0	10.5	95
MAR										
16...	1110	598	86	83	7.10	7.30	11.0	19.5	9.1	83
APR										
05...	1200	2450	78	--	6.60	7.00	16.0	20.0	8.2	84
MAY										
03...	1240	2600	70	69	--	7.50	19.0	23.0	6.5	70
JUN										
08...	1140	2600	85	84	6.70	6.60	22.0	24.0	3.7	43
JUL										
13...	1045	715	70	67	6.70	6.90	25.0	31.0	3.7	45
AUG										
03...	1300	691	63	62	6.70	6.60	27.0	33.0	4.0	51
SEP										
12...	1010	609	86	88	6.84	6.60	25.5	27.0	3.5	43

DATE	TURBIDITY (NTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
04...	9.0	1.5	<20	21	2	0.350	0.100	0.050	3.5
NOV									
01...	3.0	0.8	20	20	<1	0.610	0.110	<0.020	2.7
DEC									
08...	12	1.2	--	25	7	0.530	0.200	0.070	2.8
JAN									
03...	7.0	2.1	<20	24	6	0.580	0.170	0.060	4.5
FEB									
09...	6.0	2.2	20	20	9	0.790	0.050	0.120	3.5
MAR									
16...	14	1.6	20	20	4	0.760	0.060	0.100	2.5
APR									
05...	17	1.2	<20	16	6	0.490	0.070	<0.020	3.5
MAY									
03...	9.0	1.3	40	19	7	0.380	0.110	0.030	3.4
JUN									
08...	3.0	0.8	--	20	<1	0.450	0.050	0.110	3.1
JUL									
13...	23	1.1	20	18	3	0.370	0.060	0.070	--
AUG									
03...	21	0.7	--	15	14	0.370	0.050	0.100	4.5
SEP									
12...	3.0	1.3	900	23	2	0.350	0.100	0.120	2.9

02212600 FALLING CREEK NEAR JULIETTE, GA.
(Hydrologic Bench-Mark station)

LOCATION.--Lat 33°05'59", long 83°43'25", Jones County, Hydrologic Unit 03070103, on left bank 300 ft upstream from bridge on County Road 1432, 4 mi upstream from Caney Creek, and 5.1 mi east of Juliette.
DRAINAGE AREA.--72.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1964 to current year.
GAGE.--Water-stage recorder. Elevation of gage is 370 ft above National Geodetic Vertical Datum of 1929 (from topographic map).
REMARKS.--No estimated daily discharges. Records good.
AVERAGE DISCHARGE.--25 years, 60.6 ft^3/s, 11.40 in/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,700 ft^3/s, Mar. 2, 1971, gage height, 23.0 ft, from floodmark; minimum daily discharge, 0.01 ft^3/s, Aug. 9-22, 29, 30, and Sept. 1, 2, 1988.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 15	1915	*1,060	*9.81

Minimum daily discharge, 1.2 ft^3/s, Oct. 13, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	6.1	14	39	12	47	29	69	4.9	22	72	5.9
2	5.2	6.6	11	30	11	52	25	231	4.6	16	27	5.3
3	14	4.9	11	25	11	181	22	85	4.2	35	17	4.1
4	32	4.1	11	33	11	122	23	52	4.3	83	13	3.5
5	18	24	9.6	32	10	99	276	50	8.2	62	9.8	3.0
6	6.1	34	8.7	26	17	79	173	58	27	121	7.9	3.0
7	3.5	16	8.8	23	26	64	80	44	29	63	6.6	3.6
8	2.6	9.0	8.8	20	23	49	59	32	14	39	5.7	3.7
9	2.2	6.9	9.3	18	16	42	271	28	19	53	5.6	3.3
10	2.1	6.1	11	18	12	36	668	218	14	124	5.2	2.9
11	1.8	5.7	10	15	11	32	480	147	8.7	44	4.8	2.7
12	1.6	5.8	10	15	11	29	165	67	6.6	28	4.3	3.6
13	1.2	5.4	9.1	15	9.8	26	94	46	5.6	24	4.1	12
14	1.8	5.2	8.0	16	8.9	24	67	36	4.9	23	4.1	11
15	2.0	4.9	7.5	16	8.5	21	630	32	5.1	42	4.7	5.2
16	1.7	4.8	9.0	20	8.2	79	408	27	25	107	6.1	3.7
17	1.4	9.8	12	17	8.3	60	135	21	63	57	20	3.3
18	1.4	14	10	14	9.4	42	88	16	32	35	12	2.8
19	1.4	9.2	8.9	13	12	33	66	13	16	33	8.1	2.6
20	1.2	7.2	8.7	13	13	27	54	13	40	48	6.7	2.4
21	2.0	7.3	8.8	13	212	35	48	12	129	42	5.7	2.2
22	2.8	7.1	8.7	12	246	57	41	11	243	34	5.0	4.7
23	2.6	6.7	8.6	11	99	271	36	11	218	58	4.4	8.8
24	2.6	6.4	8.3	10	62	260	31	11	71	48	4.3	4.9
25	2.3	6.4	9.0	9.7	47	113	27	9.1	41	36	4.1	4.7
26	2.0	5.8	8.4	9.0	40	71	24	8.1	29	25	3.4	19
27	1.8	12	7.3	9.6	35	53	20	7.2	22	19	3.2	21
28	2.0	47	7.2	11	40	44	17	6.5	59	14	4.2	18
29	2.6	30	8.0	10	—	37	15	5.9	62	11	4.2	25
30	2.9	19	7.6	11	—	37	14	5.5	30	9.6	3.9	59
31	3.3	—	15	13	—	38	—	5.2	—	13	3.8	—
TOTAL	130.2	337.4	293.3	537.3	1030.1	2160	4086	1377.5	1240.1	1368.6	290.9	254.9
MEAN	4.20	11.2	9.46	17.3	36.8	69.7	136	44.4	41.3	44.1	9.38	8.50
MAX	32	47	15	39	246	271	668	231	243	124	72	59
MIN	1.2	4.1	7.2	9.0	8.2	21	14	5.2	4.2	9.6	3.2	2.2
CFSM	.06	.16	.13	.24	.51	.97	1.88	.62	.57	.61	.13	.12
IN.	.07	.17	.15	.28	.53	1.11	2.11	.71	.64	.71	.15	.13

CAL YR 1988	TOTAL	7372.56	MEAN	20.1	MAX	551	MIN	.01	CFSM	.28	IN	3.80
WTR YR 1989	TOTAL	13106.30	MEAN	35.9	MAX	668	MIN	1.2	CFSM	.50	IN	6.75

02212600 FALLING CREEK NEAR JULIETTE, GA.–Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.–October 1967 to current year.
PERIOD OF DAILY RECORD.–
WATER TEMPERATURES: August 1965 to September 1979.
EXTREMES FOR PERIOD OF DAILY RECORD.–
WATER TEMPERATURES: Maximum, 31.5°C Aug. 3, 1970; minimum, 0.0°C Jan. 9, 10, 1970, Dec. 26, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
OCT												
26...	0700	2.1	183	167	7.75	7.70	10.0	9.5	85	87	71	70
JAN												
09...	0730	19	129	133	7.73	7.70	11.5	9.8	90	44	36	36
MAY												
03...	0630	97	96	101	7.44	7.70	16.5	8.7	89	50	41	39
AUG												
29...	0700	4.1	149	158	7.81	7.80	23.5	7.1	84	85	70	71

DATE	TUR-BID-ITY (NTU)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
OCT										
26...	1.2	12	240	57	12	6.5	17	38	1	2.6
JAN										
09...	5.3	370	1300	41	9.0	4.4	11	36	0.8	1.7
MAY										
03...	31	400	760	37	8.3	4.0	6.0	25	0.4	1.0
AUG										
29...	2.1	280	780	60	14	6.0	9.8	26	0.6	2.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT								
26...	11	6.6	1.9	20	118	121	0.67	0.16
JAN								
09...	18	5.6	0.80	18	89	91	4.57	0.12
MAY								
03...	6.0	2.8	0.50	17	80	71	21.0	0.11
AUG								
29...	<1.0	3.7	1.2	23	109	--	--	--

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DISSOLVED (MG/L AS P)	PHOSPHOROUS ORTHO, DISSOLVED (MG/L AS P)
OCT									
26...	<0.010	<0.100	<0.010	<0.010	--	0.30	0.020	0.010	<0.010
JAN									
09...	<0.010	<0.100	0.020	0.020	0.38	0.40	0.020	<0.010	<0.010
MAY									
03...	<0.010	<0.100	0.050	0.050	0.25	0.30	0.040	0.020	<0.010
AUG									
29...	<0.010	<0.100	0.020	0.010	1.7	1.7	0.020	<0.010	<0.010

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT										
26...	10	<1	30	<0.5	1	<1	<3	1	280	<5
JAN										
09...	60	<1	26	<0.5	<1	1	<3	<1	280	<5
MAY										
03...	90	<1	30	<0.5	<1	<1	<3	<1	620	<5
AUG										
29...	10	<1	28	<0.5	<1	1	<3	2	470	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT										
26...	<4	210	0.3	<10	2	<1	<1.0	100	<6	<3
JAN										
09...	<4	51	<0.1	<10	<1	<1	<1.0	79	<6	<3
MAY										
03...	<4	120	<0.1	<10	<1	<1	<1.0	75	<6	4
AUG										
29...	<4	180	<0.1	<10	2	<1	<1.0	120	<6	11

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
26...	0705	2.1	10.0	1	0.01	94
JAN						
09...	0735	19	11.5	11	0.56	77
MAY						
03...	0635	97	16.5	29	7.6	90
AUG						
29...	0705	4.1	23.5	3	0.03	100

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
OCT										
26...	0700	2.1	<0.4	<0.4	2.8	<0.4	2.2	<0.4	0.02	0.01
MAY										
03...	0630	97	<0.4	1.1	1.8	1.1	1.5	0.9	0.10	0.04

02212950 OCMULGEE RIVER ABOVE MACON, GA.

LOCATION.--Lat 32°52'11", long 83°39'15", Bibb County, Hydrologic Unit 03070103, at Macon waterworks intake, 1.2 mi north of Macon city limits, and at mile 201.

DRAINAGE AREA.--2,240 mi², approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Discharge obtained from gaging station 02213000, Ocmulgee River at Macon, Ga. Flow regulated by Lloyd Shoals Reservoir (see "Lakes and Reservoirs in Altamaha River Basin," station 02210000).

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
NOV										
17...	1215	1880	106	--	7.40	7.50	16.0	16.5	9.0	91
JAN										
18...	1415	1590	99	97	7.60	7.10	8.5	18.0	11.2	96
MAR										
21...	1400	1760	87	90	7.40	7.10	16.5	21.0	9.1	94
MAY										
23...	1145	1600	86	84	7.40	7.20	24.0	27.0	7.5	90
JUL										
19...	1430	5640	69	74	7.50	7.20	27.0	33.0	7.2	91
SEP										
19...	1430	1300	106	102	7.70	7.40	26.0	28.0	7.6	94

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV									
17...	9.0	1.4	--	26	4	0.860	<0.030	0.130	2.9
JAN									
18...	8.0	2.0	20	--	1	0.670	<0.030	0.020	3.9
MAR									
21...	25	1.8	--	22	27	0.520	<0.030	0.090	--
MAY									
23...	10	0.6	--	24	7	0.430	<0.030	0.080	3.0
JUL									
19...	44	0.7	170	17	37	0.450	<0.030	0.200	4.5
SEP									
19...	4.0	0.8	330	25	1	0.480	<0.030	0.100	--

02213000 OCMULGEE RIVER AT MACON, GA.

LOCATION.--Lat 32°50'19", long 83°37'14", Bibb County, Hydrologic Unit 03070103, at downstream end of right pier of Fifth Street Bridge in Macon, 1.5 mi upstream from Walnut Creek, and at mile 198.0.

DRAINAGE AREA.--2,240 mi^2, approximately.

PERIOD OF RECORD.--February 1893 to July 1912, August 1912 to December 1913 (gage heights and discharge measurements only), October 1928 to current year. Gage height records collected at same site since 1895 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 1504: 1893-1903, 1905-10, 1932, 1937, 1942(M).

GAGE.--Water-stage recorder. Datum of gage is 269.80 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 9, 1905, nonrecording gage at sites within 1.5 mi downstream at about same datum. Oct. 9, 1905, to Dec. 31, 1913, nonrecording gage at present site and datum. Jan. 10, 1929, to June 25, 1934, water-stage recorder at site 500 ft downstream at same datum. June 25, 1934 to June 25, 1973, water-stage recorder at present site and datum, and June 26, 1973, to Oct. 13, 1974, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoir in Altamaha River Basin", station 02210000.) Records of chemical analyses for the water years 1968-73 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--79 years (water years 1894-1911, 1929-89), 2,672 ft^3/s, 16.20 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,500 ft^3/s, Nov. 29, 1948, gage height, 28.0 ft; maximum gage height, 29.45 ft, from floodmark, Mar. 4, 1971; minimum daily discharge, 128 ft^3/s, Oct. 24, 1954; minimum gage height observed, -1.0 ft, Oct. 5, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 19, 1925, reached a stage of 26.0 ft, from floodmarks at Central of Georgia Railroad bridge, 500 ft downstream, discharge 72,500 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 14,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 23	0600	*14,900	*18.60	No other peak greater than base discharge.			

Minimum daily discharge, 418 ft^3/s, June 2.

02213000 OCMULGEE RIVER AT MACON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	464	678	2420	2140	971	2070	1980	1490	579	1710	1940	1080
2	546	671	2620	1540	919	2500	1160	3340	418	1570	2060	1360
3	2330	670	2770	1920	950	4360	971	3360	519	1560	1520	743
4	3830	707	1080	2040	996	3070	1910	3230	515	3470	1610	692
5	2960	1390	1070	1700	789	3120	4730	3120	684	4690	1600	666
6	2240	2910	1050	1670	808	3380	6520	2630	1240	5040	1380	692
7	1510	1570	1160	1480	835	3770	6980	1570	1250	4980	1120	692
8	1300	1140	1280	1390	791	2960	8280	1440	1490	3750	1240	668
9	920	1050	1050	1190	754	2060	6970	1590	1840	2990	1070	674
10	713	1280	1020	1250	933	1750	10100	4110	1230	2970	787	694
11	705	1510	781	974	920	1620	10500	4280	1120	2390	1040	676
12	719	1520	1010	998	726	1490	7980	3540	837	1930	1030	655
13	658	1210	779	1480	830	1350	5420	2590	751	1840	889	653
14	588	761	744	1220	879	1310	4370	2150	721	2070	744	942
15	570	678	723	2360	880	1350	7150	2330	904	2440	870	1030
16	484	1300	1180	1610	804	1300	7510	1950	1530	2520	805	1090
17	457	1610	1930	1480	799	1380	5450	2040	2940	4620	912	712
18	443	1390	991	1310	932	1250	4400	1850	4360	4980	1000	1010
19	432	1500	910	1320	745	940	3060	1300	3930	5610	995	1120
20	491	773	990	1190	710	1070	2010	1620	2470	6690	773	814
21	451	711	1020	1160	2270	1320	1940	1170	5020	6260	1030	1950
22	500	1100	898	924	4260	2180	2150	915	9810	6090	988	2040
23	690	772	976	935	4200	3970	1630	1230	13500	6620	1170	793
24	831	963	897	995	3150	5380	1550	1230	6430	7090	1240	786
25	640	952	1210	996	1640	4410	1850	1250	6070	6440	842	938
26	598	737	779	969	1450	3660	1440	1030	5180	3270	852	2910
27	582	1020	713	892	1130	3260	1310	847	3240	2720	696	3490
28	605	2660	1090	973	1580	2990	1570	797	2500	2950	679	4500
29	604	3210	1020	899	—	2210	1480	759	1900	2840	1160	5020
30	603	2060	785	876	—	2050	1340	740	1980	2770	1390	4800
31	655	—	1400	912	—	1840	—	657	—	2820	1310	—
TOTAL	29119	38503	36346	40793	36651	75370	123711	60155	84958	117690	34742	43890
MEAN	939	1283	1172	1316	1309	2431	4124	1940	2832	3796	1121	1463
MAX	3830	3210	2770	2360	4260	5380	10500	4280	13500	7090	2060	5020
MIN	432	670	713	876	710	940	971	657	418	1560	679	653
CFSM	.42	.57	.52	.59	.58	1.09	1.84	.87	1.26	1.70	.50	.65
IN.	.48	.64	.60	.68	.61	1.25	2.05	1.00	1.41	1.95	.58	.73

CAL YR 1988	TOTAL	480765	MEAN	1314	MAX	12300	MIN	164	MEAN†	1311	CFSM†	.59	IN†	8.01
WTR YR 1989	TOTAL	721928	MEAN	1978	MAX	13500	MIN	418	MEAN†	1989	CFSM†	.89	IN†	12.09

†ADJUSTED FOR CHANGE IN CONTENTS IN LLOYD SHOALS RESERVOIR.

02213050 WALNUT CREEK NEAR GRAY, GA.

LOCATION.--Lat 32°58'20", long 83°37'08", Jones County, Hydrologic Unit 03070103, on downstream side of right bank pier of abandoned bridge, 500 ft downstream from bridge on State Highway 18, 1.4 mi upstream from Bonner Creek, and 5.5 mi southwest of Gray.

DRAINAGE AREA.--29 mi^2, approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 390 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--28 years, 30.9 ft^3/s, 14.47 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft^3/ s, Dec. 26, 1964, gage height, 23.8 ft, from floodmark, from rating curve extended above 5,000 ft^3/s on basis of contracted-opening measurement of peak flow; no flow, Oct. 3-5, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--No flow was observed during June, July, and August 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 6	0915	1,080	4.36	July 13	2245	*1,980	*6.59
Apr. 15	1045	1,030	4.29				

Minimum daily discharge, 1.4 ft^3/s, Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	11	9.7	99	10	26	16	43	6.1	4.3	9.4	3.3
2	2.5	4.7	8.3	31	9.9	88	15	47	5.9	3.6	7.5	3.0
3	17	3.6	8.0	25	10	189	15	19	5.8	5.3	6.6	2.7
4	11	4.2	7.3	25	9.6	75	16	16	6.3	11	6.0	2.4
5	5.0	42	6.8	18	9.8	60	97	16	7.6	14	5.4	2.5
6	3.2	13	6.8	16	13	331	44	14	12	12	4.9	3.7
7	2.6	7.8	6.4	16	12	91	30	12	9.4	7.6	4.5	3.7
8	2.2	6.7	6.3	14	11	52	30	12	7.8	5.9	4.2	3.4
9	2.1	6.2	7.1	18	9.5	38	146	13	11	5.6	4.5	2.8
10	2.0	5.8	7.1	19	9.1	30	462	114	7.8	15	4.2	2.4
11	2.3	5.8	7.0	16	9.2	25	160	31	6.5	6.3	8.9	2.2
12	1.8	5.4	6.9	15	9.1	22	72	19	6.1	4.9	9.4	2.1
13	1.5	5.4	6.2	18	8.6	21	48	16	5.7	322	8.7	2.2
14	1.5	5.1	6.0	15	8.7	20	36	14	5.2	223	8.6	2.0
15	1.6	5.0	5.9	16	8.8	17	335	13	8.7	52	8.1	1.7
16	1.6	5.2	8.3	17	8.6	18	98	12	17	41	4.4	2.0
17	1.7	17	7.5	15	8.5	16	53	11	15	22	6.6	1.7
18	1.6	9.1	6.2	14	9.0	16	37	10	8.9	16	4.8	1.5
19	1.5	7.1	6.0	13	9.5	15	28	10	7.7	14	4.5	1.4
20	1.6	6.3	5.8	13	9.1	14	27	10	8.2	18	4.4	1.5
21	2.5	5.8	5.8	12	96	20	24	10	17	17	2.8	1.7
22	2.5	5.4	6.1	12	63	18	20	10	22	17	2.7	5.1
23	1.9	5.4	6.4	12	34	62	18	11	10	30	2.4	3.2
24	1.8	5.4	6.8	11	24	60	16	10	7.4	16	2.5	2.0
25	1.7	5.0	6.5	11	20	34	15	9.0	6.2	12	2.2	3.6
26	1.9	4.9	5.4	10	18	26	14	8.5	4.9	11	3.9	6.3
27	2.2	47	6.1	10	17	22	13	7.8	4.2	9.5	3.1	4.5
28	2.7	47	6.4	9.9	34	20	12	7.0	3.8	8.6	3.0	5.3
29	3.4	17	6.3	9.7	—	18	12	6.6	4.5	7.7	3.0	9.0
30	3.8	11	6.1	11	—	23	12	6.4	6.1	7.0	3.5	76
31	9.2	—	69	12	—	19	—	6.4	—	11	5.2	—
TOTAL	99.5	330.3	270.5	553.6	499.0	1486	1921	544.7	254.8	950.3	159.9	164.9
MEAN	3.21	11.0	8.73	17.9	17.8	47.9	64.0	17.6	8.49	30.7	5.16	5.50
MAX	17	47	69	99	96	331	462	114	22	322	9.4	76
MIN	1.5	3.6	5.4	9.7	8.5	14	12	6.4	3.8	3.6	2.2	1.4
CFSM	.11	.38	.30	.62	.61	1.65	2.21	.61	.29	1.06	.18	.19
IN.	.13	.42	.35	.71	.64	1.91	2.46	.70	.33	1.22	.21	.21

CAL YR 1988	TOTAL	4135.40	MEAN	11.3	MAX	299	MIN	.42	CFSM	.39	IN	5.30
WTR YR 1989	TOTAL	7234.50	MEAN	19.8	MAX	462	MIN	1.4	CFSM	.68	IN	9.28

02213500 TOBESOFKEE CREEK NEAR MACON, GA.

LOCATION.–Lat 32°48'32", long 83°45'30", Bibb County, Hydrologic Unit 03070103, on right bank at downstream end of pier of bridge on State Highway 22 connector, 8 mi west of Macon, and 14 mi upstream from mouth.

DRAINAGE AREA.–182 mi^2.

PERIOD OF RECORD.–April 1937 to current year.

REVISED RECORDS.–WSP 1204: 1942.

GAGE.–Water-stage recorder. Datum of gage is 309.98 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 28, 1942, nonrecording gage at same site and datum.

REMARKS.–No estimated daily discharges. Records good. Flow regulated to some extent since November 1967 by Lake Tobesofkee about 1 mi upstream. Records of chemical analyses for the water years 1969-70 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.–52 years, 190 ft^3/s, 14.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 9,830 ft^3/s, Mar. 21, 1944, gage height, 23.2 ft, from rating curve extend above 6,300 ft^3/s; minimum, 2.3 ft^3/s, Oct. 10, 1954.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 1,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 31	2145	*2,240	*10.16	No other peak greater than base discharge.			

Minimum daily discharge, 26 ft^3/s Oct. 30, Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	29	81	580	66	160	152	271	67	92	72	47
2	33	31	73	216	65	356	120	327	67	78	64	49
3	299	31	71	154	67	751	98	243	66	130	60	52
4	223	31	68	157	71	386	102	126	64	995	53	50
5	84	37	66	140	72	282	1040	116	62	479	49	51
6	40	81	64	124	85	698	572	124	64	318	46	48
7	37	79	63	117	97	291	316	110	62	214	46	45
8	36	58	60	118	96	247	231	95	65	133	48	43
9	35	47	60	144	86	166	831	85	65	133	47	41
10	33	43	60	147	78	123	1160	663	67	135	43	39
11	32	58	66	127	72	134	1210	408	66	155	42	38
12	32	49	63	117	67	130	593	195	63	143	41	37
13	32	40	61	115	64	123	364	136	61	124	40	37
14	32	41	59	112	62	114	273	142	59	108	39	37
15	31	43	55	108	61	106	1110	143	59	101	43	36
16	30	48	56	106	61	106	1000	131	62	154	43	36
17	29	133	57	97	65	102	454	117	91	199	54	36
18	30	77	57	87	66	101	305	103	99	138	118	35
19	30	64	56	77	65	99	251	101	82	116	81	34
20	30	58	54	73	63	93	244	100	121	155	65	34
21	30	58	53	76	282	128	179	99	328	192	66	32
22	30	59	52	74	534	178	145	97	320	168	64	31
23	30	58	52	72	246	672	165	102	472	165	62	29
24	29	56	50	71	151	558	156	110	161	162	60	30
25	30	55	52	69	101	314	141	117	92	141	59	30
26	29	52	53	67	113	233	129	105	80	122	58	27
27	27	52	52	65	113	190	122	95	76	107	58	26
28	27	98	51	66	160	161	117	91	75	97	55	29
29	27	103	53	64	—	157	113	85	75	90	52	28
30	26	89	51	64	—	174	112	76	82	85	48	46
31	28	—	508	66	—	173	—	69	—	81	45	—
TOTAL	1473	1758	2277	3670	3129	7506	11805	4782	3173	5510	1721	1133
MEAN	47.5	58.6	73.5	118	112	242	394	154	106	178	55.5	37.8
MAX	299	133	508	580	534	751	1210	663	472	995	118	52
MIN	26	29	50	64	61	93	98	69	59	78	39	26
CFSM	.26	.32	.40	.65	.62	1.33	2.17	.85	.58	.98	.31	.21
IN.	.30	.36	.47	.75	.64	1.53	2.41	.98	.65	1.13	.35	.23

CAL YR 1988	TOTAL	32035	MEAN	87.5	MAX	1550	MIN	22	CFSM	.48	IN	6.55
WTR YR 1989	TOTAL	47937	MEAN	131	MAX	1210	MIN	26	CFSM	.72	IN	9.80

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.

LOCATION.–Lat 32°40'17", long 83°36'11", Bibb-Twiggs County line, Hydrologic Unit 03070103, on right bank 0.8 mi upstream from Echeconnee Creek, 4 mi northeast of Warner Robins, and 5.7 mi downstream from Tobesofkee Creek.

DRAINAGE AREA.–2,690 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–October 1972 to current year, discharge less than 3,600 ft^3/s, only.

GAGE.–Water-stage recorder. Elevation of gage is 251 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.–Estimated daily discharges, June 29 to July 5, July 29 to Aug. 1. Records good, except those for periods of estimated daily discharges, which are fair. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

EXTREMES FOR PERIOD OF RECORD.–Maximum gage height, 15.07 ft, Feb. 25, 1979; minimum daily discharge, 227 ft^3/s, Oct. 18, and July 27, 1988.

EXTREMES FOR CURRENT YEAR.–Maximum gage height, 14.34 ft, Apr. 12; minimum daily discharge, 563 ft^3/s, Oct. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	599	806	2380	2130	1170	2200	2430	1700	827	2300	3200	1340
2	602	865	2620	2400	1210	2570	2060	2770	744	2100	2180	1420
3	926	820	2750	2820	1150	—	1580	—	646	1900	2380	1210
4	2880	816	2320	2830	1180	—	1700	—	692	1800	1670	872
5	—	965	1200	2320	1170	—	2420	3510	723	3200	1820	808
6	3400	2000	1360	2050	1030	—	—	3420	910	—	1720	786
7	2380	2670	1250	1910	1120	—	—	2750	1400	—	1500	820
8	1580	1650	1260	1610	1150	—	—	1950	1500	—	1300	801
9	1340	1250	1340	1660	1090	—	—	1750	1840	—	1360	792
10	1030	1170	1160	1710	1130	2830	—	2540	1690	—	1190	786
11	848	1510	1030	1630	1160	2430	—	—	1350	3470	979	788
12	848	1530	1060	1560	1040	2090	—	—	1230	2830	1200	761
13	825	1470	1030	1450	989	1810	—	—	967	2540	1150	746
14	746	1190	924	1790	991	1730	—	3110	900	2480	1020	767
15	705	891	887	1980	1080	1710	—	2680	876	2790	917	1050
16	664	1040	952	2330	1060	1650	—	2550	1210	2800	1110	1100
17	607	1490	1640	1840	987	1720	—	2280	2180	3220	1050	1090
18	582	1580	1550	1680	1030	1700	—	2160	3140	—	1270	825
19	565	1660	1110	1610	1070	1410	—	1780	—	—	1340	1140
20	572	1310	1100	1530	935	1250	—	1630	—	—	1250	1040
21	583	975	1140	1390	1410	1440	2900	1670	3100	—	1050	1130
22	563	1020	1080	1340	—	2140	2690	1330	—	—	1220	2020
23	641	1120	1090	1170	—	2940	2380	1240	—	—	1200	1530
24	765	1030	1060	1210	—	—	2020	1480	—	—	1380	836
25	874	1050	1110	1210	—	—	2080	1480	—	—	1250	857
26	706	1020	1180	1200	2360	—	1930	1390	—	—	1020	1520
27	669	883	896	1150	1850	—	1710	1230	—	—	984	2800
28	670	1620	950	1160	1630	—	1720	1060	—	3250	852	3290
29	682	2750	1150	1140	—	3390	1750	1000	3100	3300	890	—
30	681	2880	1100	1050	—	2720	1640	955	2500	3100	1420	—
31	694	—	1060	1140	—	2570	—	919	—	3000	1410	—
TOTAL	—	41031	40739	52000	—	—	—	—	—	—	42282	—
MEAN	—	1368	1314	1677	—	—	—	—	—	—	1364	—
MAX	—	2880	2750	2830	—	—	—	—	—	—	3200	—
MIN	—	806	887	1050	—	—	—	—	—	—	852	—
CFSM	—	.51	.49	.62	—	—	—	—	—	—	.51	—
IN.	—	.57	.56	.72	—	—	—	—	—	—	.58	—

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.–Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.–May 1970 to current year.
PERIOD OF DAILY RECORD.–
SPECIFIC CONDUCTANCE: October 1970 to current year.
pH: October 1971 to current year.
WATER TEMPERATURE: February 1970 to current year.
DISSOLVED OXYGEN: May 1970 to current year.
INSTRUMENTATION.–Water-quality monitor. Specific Conductance, pH, Water Temperature, and Dissolved Oxygen recorded hourly.
REMARKS.–Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.–
SPECIFIC CONDUCTANCE: Maximum recorded, 377 microsiemens Oct. 27, 1987; minimum recorded, 25 microsiemens Jan. 7, 1974.
pH: Maximum recorded, 7.80 units Oct. 1, 1971; minimum recorded, 5.20 units Jan. 14, 1972.
WATER TEMPERATURE: Maximum recorded, 34.5°C July 17, 1981, July 21, 1986; minimum recorded, 1.0°C Jan. 19, 20, 1977.
DISSOLVED OXYGEN: Maximum recorded, 16.5 mg/L Mar. 12, 1970; minimum recorded, 0.0 mg/L June 8, 9, 1971, Sept. 17, 1980.
EXTREMES FOR CURRENT YEAR.–
SPECIFIC CONDUCTANCE: Maximum recorded, 201 microsiemens Oct. 24; minimum recorded, 69 microsiemens Apr. 17.
pH: Maximum recorded, 7.53 units Sept. 26; minimum recorded, 6.82 units Oct 5.
WATER TEMPERATURE: Maximum recorded, 31.0°C Aug. 25-26; minimum recorded, 6.5°C Dec. 14.
DISSOLVED OXYGEN: Maximum recorded, 11.1 mg/L Dec. 20, 21; minimum recorded, 5.5 mg/L June 3, 29, Aug. 16.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH (STANDARD UNITS)	PH LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV 17...	1530	1580	146	146	7.30	7.40	17.5	22.5	7.9	83
JAN 18...	1540	1580	138	134	7.30	7.30	9.5	16.5	10.4	91
MAR 21...	1745	1400	129	127	7.20	7.10	18.0	20.0	8.1	86
MAY 23...	1000	1180	138	136	7.30	–	24.0	26.0	7.0	84
JUL 19...	1615	–	91	84	7.20	6.90	27.0	23.0	6.9	87
SEP 19...	1600	1060	142	140	7.40	7.40	26.0	27.0	7.1	88

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L)
NOV 17...	40	13	19	0.3	–	35	16
JAN 18...	70	11	14	1.7	2300	31	4
MAR 21...	45	12	23	1.0	–	30	7
MAY 23...	35	12	24	0.8	–	36	9
JUL 19...	45	33	13	0.8	330	21	37
SEP 19...	20	8.0	31	0.9	130	32	8

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV							
17...	0.990	0.130	0.47	0.60	1.6	0.250	4.4
JAN							
18...	0.790	0.310	1.2	1.5	2.3	0.170	4.6
MAR							
21...	0.860	0.040	0.46	0.50	1.4	0.220	5.0
MAY							
23...	1.07	0.040	0.36	0.40	1.5	0.200	4.5
JUL							
19...	0.450	0.030	0.47	0.50	0.95	0.090	5.0
SEP							
19...	0.940	<0.030	--	0.30	1.2	0.220	--

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	195	178	—	—	—	—	142	95	—	—	133	120
2	193	175	187	164	—	—	110	99	—	—	122	109
3	178	109	177	163	126	117	108	98	—	—	113	92
4	104	91	182	170	144	120	122	107	150	141	104	93
5	100	94	184	152	158	145	130	114	—	—	95	92
6	107	97	147	115	144	133	131	124	—	—	103	94
7	129	108	128	117	152	136	135	126	—	—	100	86
8	148	127	145	130	154	132	154	130	144	137	100	87
9	151	128	162	140	143	132	147	128	146	137	103	92
10	156	143	168	148	160	143	139	130	148	133	112	104
11	164	154	149	139	163	146	147	130	148	132	115	108
12	166	155	150	133	159	142	144	139	154	131	118	110
13	165	155	150	132	163	142	153	134	151	140	126	113
14	181	159	162	138	176	152	142	130	161	140	131	116
15	185	172	176	158	168	159	137	116	161	145	131	119
16	191	173	184	139	171	147	126	117	166	150	133	120
17	190	178	156	130	144	121	135	123	169	160	126	119
18	192	178	158	129	153	115	140	126	165	153	121	114
19	196	182	148	129	158	128	138	129	162	147	129	114
20	195	183	—	—	136	123	141	130	165	156	131	123
21	193	178	—	—	157	123	150	136	159	116	129	118
22	196	181	—	—	164	142	145	134	113	89	117	97
23	193	171	—	—	170	150	147	135	106	98	102	91
24	201	155	—	—	169	150	146	133	104	101	92	88
25	163	144	—	—	163	139	152	133	117	105	91	83
26	182	164	—	—	156	137	155	133	130	117	90	85
27	187	174	—	—	181	157	157	135	138	123	95	90
28	185	179	—	—	188	168	158	138	149	129	99	94
29	184	176	—	—	179	157	158	137	—	—	101	97
30	194	177	—	—	168	155	—	—	—	—	110	94
31	—	—	—	—	174	143	—	—	—	—	106	96
MONTH	201	91	187	115	188	115	158	95	169	89	133	83

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.–Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	106	94	132	115	162	145	120	98	—	—	—	—
2	117	96	115	76	172	151	111	99	—	—	—	—
3	124	114	95	84	200	170	115	98	99	89	—	—
4	131	101	93	89	187	164	101	83	118	99	152	144
5	115	78	95	90	177	159	87	73	—	—	162	148
6	90	72	99	96	160	135	86	81	—	—	165	153
7	82	77	113	101	130	117	89	83	—	—	165	154
8	87	81	125	109	—	—	90	86	—	—	170	153
9	87	83	128	112	—	—	90	88	—	—	167	155
10	85	79	114	80	—	—	93	89	—	—	162	149
11	79	75	97	74	—	—	93	89	—	—	156	144
12	75	74	93	84	130	120	103	93	128	113	160	146
13	77	74	95	87	140	129	103	93	129	114	158	146
14	81	78	100	96	145	133	104	87	133	121	159	147
15	81	80	107	98	146	136	94	83	140	129	143	131
16	79	72	107	100	138	123	95	85	137	121	143	127
17	72	69	112	98	121	104	84	74	136	121	143	125
18	80	71	111	101	106	94	93	81	134	118	151	134
19	85	80	125	104	108	96	91	87	123	115	142	130
20	98	86	125	107	114	109	—	—	127	115	157	127
21	102	96	125	105	119	91	—	—	137	124	156	121
22	102	89	138	119	102	90	—	—	131	116	123	111
23	111	90	143	127	97	88	—	—	134	122	141	117
24	112	101	131	120	88	86	—	—	130	116	157	141
25	106	92	129	118	88	82	—	—	138	118	154	136
26	115	95	134	117	87	85	—	—	139	130	152	111
27	123	104	135	125	90	87	—	—	—	—	114	100
28	123	106	143	130	96	91	—	—	—	—	109	99
29	129	106	145	129	117	98	—	—	—	—	112	108
30	136	109	152	137	106	93	—	—	—	—	109	101
31	—	—	153	139	—	—	—	—	—	—	—	—
MONTH	136	69	153	74	200	82	120	73	140	89	170	99
YEAR	201	69										

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.29	7.26	7.41	7.20	7.36	7.20	7.31	6.97	—	—	7.33	7.28
2	7.31	7.27	7.21	7.16	7.38	7.33	6.99	6.84	—	—	7.32	7.28
3	7.32	7.14	7.17	7.11	7.40	7.35	7.07	6.89	—	—	7.30	7.11
4	7.10	6.99	7.22	7.16	7.35	7.19	7.19	7.05	7.30	7.26	7.10	7.00
5	7.02	6.82	7.26	7.15	7.27	7.19	7.21	7.14	—	—	7.08	6.98
6	6.95	6.88	7.18	7.12	7.37	7.27	7.28	7.22	—	—	7.15	7.05
7	7.02	6.87	7.18	7.07	7.38	7.31	7.27	7.20	—	—	7.14	6.97
8	7.14	7.00	7.17	7.05	7.36	7.30	7.26	7.18	7.28	7.22	7.13	7.04
9	7.18	7.15	7.20	7.11	7.35	7.28	7.27	7.19	7.31	7.26	7.15	7.09
10	7.23	7.19	7.22	7.18	7.33	7.26	7.21	7.16	7.40	7.29	7.18	7.11
11	7.25	7.21	7.28	7.23	7.32	7.26	7.19	7.12	7.40	7.33	7.20	7.17
12	7.26	7.23	7.32	7.26	7.38	7.29	7.18	7.14	7.38	7.29	7.23	7.16
13	7.28	7.26	7.32	7.28	7.37	7.32	7.21	7.12	7.38	7.29	7.19	7.12
14	7.33	7.26	7.32	7.25	7.35	7.32	7.24	7.19	7.40	7.29	7.20	7.14
15	7.36	7.33	7.26	7.22	7.33	7.31	7.30	7.21	7.32	7.31	7.23	7.18
16	7.36	7.35	7.29	7.22	7.33	7.30	7.28	7.24	7.31	7.24	7.24	7.16
17	7.36	7.34	7.30	7.22	7.41	7.32	7.30	7.22	7.27	7.24	7.22	7.18
18	7.35	7.31	7.29	7.24	7.41	7.37	7.38	7.24	7.35	7.28	7.22	7.17
19	7.31	7.28	7.24	7.14	7.41	7.34	7.39	7.34	7.37	7.34	7.19	7.12
20	7.31	7.29	7.17	7.12	7.43	7.35	7.38	7.32	7.36	7.32	7.18	7.13
21	7.32	7.29	7.20	7.12	7.42	7.35	7.37	7.32	7.36	7.17	7.21	7.17
22	7.31	7.29	7.29	7.17	7.40	7.32	7.38	7.34	7.16	7.01	7.21	7.06
23	7.37	7.31	7.30	7.25	7.34	7.29	7.39	7.30	7.09	7.02	7.21	7.14
24	7.41	7.34	7.32	7.25	7.32	7.27	7.39	7.33	7.22	7.09	7.20	7.09
25	7.36	7.31	7.34	7.29	7.33	7.25	7.38	7.31	7.21	7.16	7.09	7.03
26	7.33	7.28	7.34	7.28	7.34	7.32	7.37	7.30	7.27	7.18	7.08	7.06
27	7.29	7.25	7.28	7.23	7.36	7.31	7.35	7.26	7.27	7.22	7.12	7.07
28	7.26	7.22	7.33	7.29	7.40	7.35	7.38	7.30	7.31	7.21	7.14	7.09
29	7.27	7.18	7.35	7.31	7.41	7.39	7.38	7.30	—	—	7.17	7.13
30	7.21	7.18	7.34	7.21	7.41	7.34	—	—	—	—	7.17	7.08
31	7.39	7.20	—	—	7.35	7.30	—	—	—	—	7.19	7.12
MONTH	7.41	6.82	7.41	7.05	7.43	7.19	7.39	6.84	7.40	7.01	7.33	6.97

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.–Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.28	7.17	7.23	7.17	7.38	7.34	7.22	7.13	—	—	—	—
2	7.28	7.18	7.18	7.09	7.36	7.34	7.25	7.20	—	—	—	—
3	7.25	7.22	7.17	7.11	7.42	7.31	7.28	7.23	7.25	7.14	—	—
4	7.33	7.24	7.16	7.11	7.43	7.39	7.29	7.20	7.19	7.11	7.38	7.30
5	7.33	7.21	7.15	7.12	7.42	7.36	7.24	7.09	—	—	7.37	7.34
6	7.21	7.09	7.16	7.12	7.39	7.31	7.11	7.03	—	—	7.37	7.25
7	7.10	7.05	7.15	7.09	7.38	7.33	7.14	7.09	—	—	7.38	7.30
8	7.15	7.10	7.18	7.13	—	—	7.14	7.12	—	—	7.35	7.24
9	7.28	7.11	7.23	7.17	—	—	7.18	7.08	—	—	7.34	7.27
10	7.30	7.13	7.25	7.15	—	—	7.22	7.17	—	—	7.34	7.28
11	7.13	7.03	7.13	7.07	—	—	7.24	7.20	—	—	7.38	7.32
12	7.13	7.03	7.12	7.08	7.33	7.26	7.21	7.13	7.30	7.22	7.37	7.33
13	7.21	7.08	7.15	7.12	7.34	7.26	7.24	7.15	7.29	7.22	7.37	7.32
14	7.23	7.16	7.25	7.12	7.36	7.32	7.26	7.15	7.27	7.23	7.35	7.30
15	7.21	7.17	7.30	7.19	7.37	7.31	7.17	7.04	7.25	7.18	7.36	7.31
16	7.18	6.99	7.30	7.23	7.36	7.23	7.22	7.13	7.26	7.06	7.36	7.25
17	6.99	6.93	7.31	7.19	7.32	7.15	7.29	7.16	7.11	7.06	7.30	7.23
18	7.00	6.94	7.29	7.22	7.29	7.15	7.27	7.24	7.11	6.90	7.31	7.28
19	7.04	6.98	7.28	7.22	7.28	7.20	7.24	7.14	7.37	7.08	7.36	7.27
20	7.02	6.96	7.28	7.24	7.22	7.19	—	—	7.28	7.15	7.36	7.21
21	7.14	7.03	7.30	7.26	7.31	7.18	—	—	7.27	7.19	7.35	7.30
22	7.19	7.10	7.28	7.27	7.28	7.11	—	—	7.33	7.22	7.37	7.33
23	7.18	7.12	7.31	7.27	7.10	6.88	—	—	7.32	7.25	7.41	7.35
24	7.18	7.15	7.31	7.28	6.96	6.90	—	—	7.35	7.25	7.43	7.40
25	7.20	7.17	7.31	7.28	6.99	6.94	—	—	7.35	7.27	7.51	7.44
26	7.20	7.15	7.32	7.26	7.06	6.99	—	—	7.31	7.25	7.53	7.43
27	7.20	7.15	7.31	7.24	7.06	7.01	—	—	—	—	7.42	7.36
28	7.19	7.08	7.33	7.23	7.12	7.07	—	—	—	—	7.39	7.34
29	7.23	7.20	7.36	7.32	7.17	7.08	—	—	—	—	7.33	7.17
30	7.23	7.21	7.40	7.36	7.22	7.17	—	—	—	—	7.17	7.12
31	—	—	7.40	7.39	—	—	—	—	—	—	—	—
MONTH	7.33	6.93	7.40	7.07	7.43	6.88	7.29	7.03	7.37	6.90	7.53	7.12
YEAR	7.53	6.82										

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.0	23.5	17.0	16.0	11.5	11.0	11.5	10.5	—	—	11.5	10.5
2	25.0	24.0	17.0	15.5	11.0	10.5	11.5	10.5	—	—	10.5	9.5
3	24.5	23.0	17.0	15.5	11.0	10.0	11.0	10.5	—	—	9.5	9.5
4	23.0	22.0	16.0	15.5	11.0	10.0	10.5	9.5	14.5	14.0	10.5	9.5
5	22.0	21.5	17.0	15.5	11.0	10.0	9.5	8.5	—	—	12.0	10.5
6	21.5	20.5	16.0	15.5	10.0	9.5	9.5	8.5	—	—	13.0	12.0
7	20.5	19.5	15.5	14.5	10.5	9.5	11.5	9.5	—	—	12.5	11.0
8	20.0	18.5	14.5	14.0	11.0	10.0	13.0	11.5	13.0	11.5	10.5	9.0
9	19.0	18.0	15.5	14.5	11.0	10.5	12.5	12.0	11.0	9.5	10.0	8.5
10	19.0	18.0	16.5	15.0	10.5	10.0	12.0	10.5	9.0	8.0	11.0	10.0
11	19.5	17.5	17.0	16.0	10.0	9.5	11.0	10.5	9.0	7.5	12.0	11.0
12	19.5	18.0	16.5	15.5	9.5	8.0	11.0	11.0	10.0	8.0	13.5	12.0
13	18.5	16.5	16.0	15.0	8.0	7.0	12.0	11.0	11.5	9.5	15.0	13.5
14	17.5	16.0	16.0	15.0	8.0	6.5	12.0	11.0	13.0	10.5	16.5	14.5
15	17.5	15.0	16.5	15.5	10.0	8.0	10.5	10.0	14.5	12.5	17.5	16.0
16	18.0	15.5	17.0	16.0	10.5	9.5	10.0	9.5	16.0	14.0	18.5	17.0
17	18.5	16.0	17.5	16.5	9.5	8.5	9.5	9.0	15.5	13.5	18.5	18.0
18	19.5	17.0	16.5	15.0	8.5	7.5	9.5	8.5	13.5	10.5	19.0	18.0
19	20.5	18.5	16.0	15.0	8.0	7.0	9.0	8.5	10.5	10.0	19.5	18.0
20	19.5	18.0	17.0	15.5	8.5	7.0	10.0	8.5	10.5	10.0	18.5	17.5
21	19.0	18.0	16.5	15.0	9.0	7.0	9.5	8.5	11.0	10.0	18.0	17.0
22	18.5	17.0	15.0	14.0	10.5	8.5	8.5	8.0	11.0	10.5	17.5	15.0
23	18.0	16.0	13.5	13.5	11.5	10.5	9.0	8.0	10.5	8.5	14.5	12.0
24	19.0	17.0	14.0	13.0	13.0	11.5	9.5	8.0	8.5	7.0	12.5	12.0
25	18.0	17.0	14.5	13.5	13.5	12.0	10.0	8.5	8.0	6.5	14.0	12.0
26	18.0	16.5	15.0	13.5	12.0	10.5	10.5	9.0	9.0	8.0	15.5	14.0
27	18.5	17.0	16.0	14.5	11.5	10.5	12.5	10.0	10.5	8.5	16.5	15.5
28	19.5	18.0	15.5	14.0	12.5	11.0	12.0	11.0	12.0	10.5	17.5	16.0
29	20.5	19.0	14.0	12.0	11.5	10.0	12.0	10.5	—	—	18.0	17.0
30	20.0	19.5	12.0	11.5	10.0	9.5	—	—	—	—	19.0	18.0
31	19.0	17.0	—	—	10.5	10.0	—	—	—	—	19.5	18.0
MONTH	25.0	15.0	17.5	11.5	13.5	6.5	13.0	8.0	16.0	6.5	19.5	8.5

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.0	16.0	23.0	22.0	30.0	27.5	26.5	26.0	—	—	—	—
2	17.0	15.5	22.0	20.0	30.0	28.0	26.0	25.5	—	—	—	—
3	17.5	16.0	20.0	19.0	29.5	27.5	26.0	25.0	29.0	28.0	—	—
4	19.0	17.5	20.0	19.0	30.5	28.5	25.5	25.0	29.5	28.0	29.0	27.5
5	18.5	17.0	20.5	20.0	29.5	28.0	25.0	24.5	—	—	27.5	26.5
6	17.0	16.0	21.0	20.0	27.5	26.5	25.0	24.5	—	—	27.0	25.5
7	16.0	15.5	20.0	19.0	26.0	25.0	25.5	25.0	—	—	27.5	26.5
8	16.0	15.0	20.0	19.0	—	—	26.5	25.5	—	—	28.5	26.5
9	15.5	14.5	20.0	19.0	—	—	27.0	26.0	—	—	29.5	27.5
10	14.5	13.5	20.5	19.5	—	—	28.0	26.5	—	—	30.0	28.0
11	13.5	13.0	20.0	18.5	—	—	28.0	27.0	—	—	30.0	28.5
12	13.5	13.0	19.0	18.5	27.0	25.5	28.5	27.0	27.0	25.5	30.0	28.5
13	14.5	13.5	19.0	18.5	29.0	26.0	28.5	27.5	26.5	25.5	30.5	29.0
14	15.0	14.0	19.5	18.5	30.0	28.0	28.5	27.5	27.0	25.5	30.5	28.5
15	15.5	14.5	21.5	20.0	29.5	28.0	28.5	27.0	27.5	25.5	29.5	29.0
16	15.5	15.0	22.5	21.0	28.0	25.0	27.5	26.5	27.5	26.0	29.0	28.0
17	16.5	15.5	22.5	21.0	25.0	24.5	27.5	26.5	28.5	26.5	28.0	27.0
18	17.5	16.0	22.5	21.5	25.5	24.0	27.0	26.5	27.5	27.0	27.5	26.0
19	18.0	17.0	22.0	21.5	25.5	25.0	27.0	26.5	28.5	27.0	26.0	25.5
20	18.0	17.5	22.5	22.0	25.5	25.0	—	—	29.0	27.5	25.5	24.5
21	18.0	17.0	23.0	22.5	25.5	24.5	—	—	30.0	28.0	26.0	25.0
22	19.0	18.0	23.5	22.5	25.0	24.5	—	—	30.0	29.0	26.0	25.0
23	20.0	18.5	25.0	23.5	24.5	24.0	—	—	30.5	29.5	26.5	25.5
24	20.5	19.5	25.5	24.0	25.0	24.5	—	—	30.5	29.5	26.0	23.5
25	22.0	20.5	26.0	25.0	25.5	25.0	—	—	31.0	30.0	23.5	21.0
26	23.0	21.5	26.5	25.5	26.0	25.5	—	—	31.0	29.5	21.0	20.0
27	23.5	22.5	27.5	26.0	26.5	26.0	—	—	—	—	22.0	20.0
28	24.0	23.5	28.5	26.5	27.0	26.0	—	—	—	—	22.0	21.0
29	24.0	23.0	28.0	26.0	27.5	26.0	—	—	—	—	21.0	20.5
30	23.5	22.5	28.0	26.0	27.5	26.5	—	—	—	—	21.0	20.5
31	—	—	29.0	26.5	—	—	—	—	—	—	—	—
MONTH	24.0	13.0	29.0	18.5	30.5	24.0	28.5	24.5	31.0	25.5	30.5	20.0
YEAR	31.0	6.5										

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.–Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.4	5.9	7.9	7.5	9.9	9.4	10.1	9.3	—	—	10.0	9.6
2	6.4	6.2	7.9	7.6	10.1	9.8	9.3	8.7	—	—	10.4	10.0
3	7.0	6.4	7.9	7.5	10.1	9.9	9.6	9.1	—	—	10.4	10.1
4	7.3	6.9	7.9	7.6	10.1	9.4	10.1	9.5	8.7	8.5	10.1	9.8
5	7.3	7.0	8.1	7.5	9.6	9.1	10.4	9.8	—	—	9.8	9.7
6	7.4	7.1	8.5	7.4	10.0	9.7	10.6	10.3	—	—	9.8	9.3
7	7.5	7.0	8.6	8.4	10.0	9.5	10.5	10.0	—	—	9.6	9.1
8	7.7	7.3	8.6	8.0	10.0	9.5	9.9	9.2	9.3	8.5	10.4	9.6
9	8.0	7.6	8.6	7.9	10.0	9.6	9.8	9.3	10.0	9.3	10.5	10.3
10	7.8	7.7	8.4	7.8	9.7	9.2	9.7	9.4	10.8	9.9	10.4	10.1
11	7.9	7.5	8.3	8.0	9.7	9.4	9.7	9.3	10.8	10.3	10.2	10.0
12	7.9	7.5	8.6	8.1	10.5	9.8	9.7	9.4	10.8	9.9	10.0	9.6
13	8.0	7.7	8.6	8.3	10.6	10.5	9.7	9.1	10.5	10.0	9.7	9.0
14	8.1	7.8	8.6	8.1	10.6	10.3	9.7	9.4	10.5	9.4	9.3	8.8
15	8.1	7.7	8.1	7.7	10.3	9.8	10.4	9.6	9.7	9.3	8.9	8.6
16	8.1	7.6	8.4	7.6	10.1	9.7	10.6	10.4	9.3	8.8	8.8	8.4
17	7.8	7.5	8.4	7.8	10.7	10.1	10.7	10.3	8.8	8.4	8.6	8.4
18	7.7	7.2	8.7	8.1	10.6	10.4	10.7	10.4	9.7	8.8	8.5	8.2
19	7.5	6.8	8.7	8.2	11.0	10.5	10.7	10.3	10.1	9.7	8.4	7.9
20	7.3	6.9	8.5	7.5	11.1	10.6	10.7	10.2	10.2	10.0	8.3	8.0
21	7.4	7.0	8.0	7.5	11.1	10.6	10.4	9.9	10.2	9.9	8.5	8.1
22	7.4	7.1	8.8	8.1	10.9	10.2	10.6	10.4	9.8	9.4	8.9	7.5
23	7.7	7.3	8.8	8.5	10.4	9.6	10.8	10.3	10.0	9.4	9.6	9.0
24	7.9	7.7	8.9	8.4	9.9	9.1	10.8	10.4	10.9	10.0	9.8	9.6
25	8.0	7.8	9.0	8.4	9.7	9.0	10.7	10.1	10.9	10.6	9.6	9.1
26	7.9	7.4	9.0	8.6	9.9	9.8	10.6	9.9	10.7	10.3	9.1	8.8
27	7.6	7.2	8.5	8.1	9.9	9.9	10.4	9.4	10.7	10.0	8.8	8.7
28	7.3	7.0	9.1	8.3	9.9	9.5	9.9	9.2	9.9	9.3	8.7	8.6
29	7.1	6.8	9.6	9.0	10.0	9.8	9.9	9.3	—	—	8.6	8.3
30	7.0	6.9	9.6	9.4	10.3	10.0	—	—	—	—	8.2	7.6
31	7.8	7.1	—	—	10.1	9.8	—	—	—	—	8.1	7.5
MONTH	8.1	5.9	9.6	7.4	11.1	9.0	10.8	8.7	10.9	8.4	10.5	7.5

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.8	7.9	6.9	6.6	6.4	6.0	6.6	6.0	—	—	—	—
2	8.8	8.2	7.9	6.7	6.1	5.8	7.0	6.5	—	—	—	—
3	8.5	8.3	7.9	7.7	5.8	5.5	7.0	6.7	7.5	7.0	—	—
4	8.5	7.8	7.9	7.8	5.9	5.6	7.4	6.9	7.0	6.3	6.5	6.2
5	8.6	8.0	7.8	7.6	6.1	5.6	7.5	7.2	—	—	6.5	6.2
6	8.6	8.3	7.7	7.6	6.4	6.1	7.2	7.1	—	—	6.7	6.4
7	8.3	8.2	7.8	7.2	6.9	6.4	7.1	7.1	—	—	6.5	6.2
8	8.4	8.3	8.0	7.7	—	—	7.1	6.9	—	—	6.4	5.9
9	8.5	8.2	8.0	7.7	—	—	6.9	6.7	—	—	6.1	5.9
10	8.8	8.6	8.1	7.9	—	—	6.9	6.8	—	—	6.2	5.8
11	8.8	8.7	8.1	7.9	—	—	7.0	6.8	—	—	6.3	6.0
12	8.9	8.7	8.1	8.0	6.7	6.4	6.8	6.2	7.1	6.8	6.3	6.0
13	8.9	8.8	8.1	8.0	6.4	6.0	6.7	6.2	7.1	6.8	6.3	6.0
14	8.9	8.7	8.2	7.8	6.1	5.8	6.6	6.3	6.9	6.8	6.2	5.9
15	8.8	8.6	8.0	7.7	6.0	5.8	6.9	6.0	6.9	6.3	6.3	6.0
16	8.6	8.3	7.9	7.5	6.4	5.7	6.9	6.4	6.9	5.5	8.3	6.3
17	8.3	8.1	7.9	7.4	7.2	6.5	7.2	6.8	6.1	5.8	8.3	7.8
18	8.2	8.1	8.0	7.4	7.2	7.1	7.2	6.9	6.3	5.8	7.8	7.2
19	8.2	8.0	7.9	6.9	7.1	6.8	6.9	6.8	6.6	6.4	7.7	7.0
20	8.0	7.4	7.4	7.1	6.8	6.6	—	—	6.6	6.3	7.9	7.3
21	7.9	7.6	7.6	7.1	7.2	6.6	—	—	6.4	6.1	7.5	7.2
22	8.2	7.6	7.3	7.0	7.2	6.9	—	—	6.5	6.2	7.6	7.1
23	8.2	7.6	7.0	6.6	6.8	6.4	—	—	6.3	6.0	7.1	6.3
24	7.8	7.5	6.9	6.7	6.4	6.1	—	—	6.3	6.2	6.8	6.4
25	7.7	7.4	6.9	6.7	6.5	6.1	—	—	6.4	6.0	7.7	6.9
26	7.7	7.1	7.0	6.6	6.5	6.4	—	—	6.1	5.9	8.4	7.8
27	7.2	6.7	6.6	6.4	6.4	6.2	—	—	—	—	8.3	7.6
28	6.9	6.6	6.4	6.3	6.4	6.1	—	—	—	—	8.0	7.8
29	7.1	6.7	6.6	6.4	6.3	5.5	—	—	—	—	8.0	7.8
30	7.0	6.6	6.7	6.5	6.6	6.2	—	—	—	—	7.8	7.7
31	—	—	6.7	6.3	—	—	—	—	—	—	—	—
MONTH	8.9	6.6	8.2	6.3	7.2	5.5	7.5	6.0	7.5	5.5	8.4	5.8
YEAR	11.1	5.5										

02214265 OCMULGEE RIVER NEAR BONAIRE, GA.

LOCATION.--Lat 32°32'33", long 83°32'13", Houston-Twiggs County line, Hydrologic Unit 03070104, at bridge on State Highway 96, 0.4 mi downstream from Flat Creek and 3.5 mi east of Bonaire.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Lloyd Shoals Reservoir (see "Lakes and Reservoirs in Altamaha River Basin", station 02210000).

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
NOV										
15...	1335	1240	149	149	7.30	7.10	17.0	24.0	8.8	92
JAN										
17...	1400	2300	107	101	7.10	7.00	10.5	17.0	11.4	103
MAR										
21...	1645	1750	118	122	7.20	7.00	18.0	21.5	7.8	84
MAY										
16...	1255	3880	94	94	7.10	7.10	21.0	30.0	7.1	81
JUL										
18...	1235	3740	75	75	7.00	7.00	26.5	32.0	6.2	78
SEP										
19...	1245	1320	138	134	7.30	7.10	25.0	24.0	6.4	79

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV									
15...	50	9.0	0.5	--	35	0.750	0.050	0.270	5.8
JAN									
17...	40	15	1.2	170	24	0.710	0.070	0.130	5.6
MAR									
21...	45	16	1.1	--	27	0.780	<0.030	0.230	7.3
MAY									
16...	60	23	0.8	50	23	0.690	<0.030	0.210	4.9
JUL									
18...	70	54	0.5	490	19	0.440	<0.030	0.110	6.3
SEP									
19...	50	13	1.0	170	33	1.10	0.170	0.290	--

02215100 TUCSAWHATCHEE CREEK NEAR HAWKINSVILLE, GA.

LOCATION.--Lat 32°14'22", long 83°30'06", Pulaski County, Hydrologic Unit 03070104, in left bank 90 ft upstream from State Highways 27 and 257, 0.6 mi upstream from Cedar Creek, 0.6 mi downstream from Long Branch, and 3.5 mi southwest of Hawkinsville.

DRAINAGE AREA.--163 mi^2.

PERIOD OF RECORD.--Water years 1984-86 (annual maximum), April 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 210 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Dec. 6, 1984 to Apr. 1, 1986, crest-stage gage at site 100 ft downstream at datum 3.00 ft higher.

REMARKS.--Estimated daily discharge: Oct. 1-10. Records good, except those for the period of estimated discharges, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,760 ft^3/s, Jan. 20, 1987; gage height, 11.94 ft, minimum daily discharge, 1.1 ft^3/s, July 23, 24, 1986.

EXTREMES FOR CURRENT PERIOD.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 10	1500	*1,490	*9.64	No other peak greater than base discharge.			

Minimum discharge, 10 ft^3/s, June 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	15	26	46	46	84	70	71	11	661	47	84
2	20	15	25	46	44	91	63	143	11	354	41	355
3	35	15	24	46	39	214	53	216	14	164	37	272
4	50	15	23	45	37	261	49	175	18	161	33	79
5	40	22	24	39	35	281	49	87	13	586	29	56
6	25	32	24	35	34	189	60	68	16	757	25	43
7	20	33	24	35	41	121	65	54	32	647	22	39
8	20	33	25	34	42	101	55	45	32	520	20	69
9	20	27	25	35	36	91	80	39	181	330	19	70
10	20	24	26	42	32	84	233	38	1180	198	19	45
11	18	22	29	46	29	80	647	40	941	124	20	34
12	17	22	34	49	29	76	941	42	411	96	20	29
13	16	22	34	48	28	74	736	37	155	95	18	25
14	14	22	32	44	28	75	420	33	71	89	19	22
15	14	21	32	42	28	77	293	31	51	157	19	20
16	14	22	34	49	29	68	252	29	59	243	28	19
17	14	22	37	48	29	65	218	27	128	207	26	18
18	14	22	37	44	28	62	171	23	249	147	32	18
19	13	20	36	39	28	59	134	21	256	114	33	16
20	12	23	32	38	29	55	112	21	309	260	25	15
21	13	31	31	38	62	56	98	21	477	324	20	15
22	15	30	31	36	157	63	92	21	446	299	18	15
23	13	27	31	34	209	89	98	21	323	273	17	14
24	13	27	31	33	196	138	81	22	196	237	16	14
25	12	28	35	32	89	178	69	23	192	211	15	15
26	11	27	43	32	69	153	67	20	117	193	18	24
27	11	27	44	32	62	96	59	17	76	115	23	38
28	12	31	42	32	66	83	50	15	97	87	20	37
29	12	31	37	31	—	76	44	13	242	73	22	30
30	12	28	35	35	—	71	45	12	431	61	19	29
31	13	—	38	45	—	69	—	11	—	52	19	—
TOTAL	553	736	981	1230	1581	3280	5404	1436	6735	7835	739	1559
MEAN	17.8	24.5	31.6	39.7	56.5	106	180	46.3	225	253	23.8	52.0
MAX	50	33	44	49	209	281	941	216	1180	757	47	355
MIN	11	15	23	31	28	55	44	11	11	52	15	14
CFSM	.11	.15	.19	.24	.35	.65	1.10	.28	1.38	1.55	.15	.32
IN.	.13	.17	.22	.28	.36	.75	1.23	.33	1.54	1.79	.17	.36

CAL YR 1988	TOTAL	20652.4	MEAN	56.4	MAX	341	MIN	4.0	CFSM	.35	IN	4.71
WTR YR 1989	TOTAL	32069.0	MEAN	87.9	MAX	1180	MIN	11	CFSM	.54	IN	7.32

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.

LOCATION.--Lat 31°55'06", long 82°40'26", Telfair-Jeff Davis County line, Hydrologic Unit 03070104, near left bank on downstream end of pier of bridge on U.S. Highway 341 at Lumber City, 500 ft downstream from Southern Railway bridge, 1 mi upstream from Little Ocmulgee River, and 12 mi upstream from confluence with Oconee River.

DRAINAGE AREA.--5,180 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1936 to current year. Gage-height records collected at same site since 1908 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1504: 1937.

GAGE.--Water-stage recorder. Datum of gage is 87.48 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1937, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lloyds Shoals Reservoir. (See Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

AVERAGE DISCHARGE.--53 years, 5,455 ft^3/s, 14.30 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,000 ft^3/s, Dec. 8, 1948; maximum gage height, 22.7 ft, Dec. 9, 1948; minimum discharge, 800 ft^3/s, Oct. 30 to Nov. 3, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1841, 98,400 ft^3/s, Jan. 21, 1925, from rating extended above 67,000 ft^3/s on basis of records of peak flow for stations on Ocmulgee, Oconee, and Altamaha Rivers; maximum stage known, 26.3 ft, Jan. 21, 1925, backwater from Oconee River.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 21	2000	*12,000	*11.28

Minimum discharge, 1,390 ft^3/s, Oct. 26, 27 gage height, 0.46 ft.

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1940	1480	1880	1880	2180	4510	5470	3690	2120	6400	7720	2490
2	1800	1480	2070	1960	2170	4730	5590	3570	2020	6950	7790	2550
3	1740	1470	2490	2020	2140	5050	5710	3710	1940	7560	7850	2340
4	1860	1470	2820	2100	2140	5250	5700	3800	1870	8190	7540	2410
5	1840	1530	2980	2430	2160	5200	5410	3980	1790	8630	6710	2530
6	1860	1630	3040	2820	2160	5320	4710	4240	1780	8550	5660	2600
7	2170	1660	3100	3100	2120	5580	3820	4390	1770	7820	4660	2490
8	2750	1670	3030	3300	2110	5770	3360	4470	1860	6690	3890	2240
9	3190	1770	2690	3400	2090	5850	3420	4490	2020	6020	3430	2040
10	3450	2090	2380	3330	2040	5880	3790	4510	2350	6080	3160	1930
11	3590	2480	2270	3130	2030	5880	4960	4470	3090	6470	2910	1880
12	3360	2570	2240	2910	2030	5880	5950	4290	3720	6520	2680	1850
13	2840	2360	2240	2800	2000	5880	6590	3830	4360	6370	2540	1800
14	2400	2180	2190	2810	1990	5860	7110	3680	4740	6300	2610	1770
15	2100	2180	2110	2790	1990	5810	7780	3870	4650	6290	2750	1740
16	1920	2240	2060	2750	1950	5650	8730	4050	3780	6250	2460	1710
17	1820	2240	2030	2670	1890	5070	9740	4190	2990	6140	2340	1680
18	1740	2150	1970	2690	1870	4170	10600	4310	2760	5970	2230	1660
19	1670	2010	1920	2790	1880	3630	11200	4400	2730	5740	2200	1730
20	1610	1950	1930	2940	1890	3380	11700	4320	3140	5640	2400	1800
21	1560	2090	2140	2910	1900	3270	11900	3960	4010	5530	2340	1820
22	1510	2260	2280	2760	2070	3240	11800	3560	4580	5430	2350	1760
23	1460	2350	2170	2630	2430	3290	11200	3220	5070	5510	2360	1790
24	1430	2300	2050	2530	2760	3560	10300	2960	5740	6160	2330	1830
25	1410	2110	2010	2430	3250	3980	9290	2810	6320	6850	2340	1870
26	1400	1990	1970	2320	3810	4360	8580	2610	6580	7040	2260	2120
27	1400	1980	1950	2220	4160	4710	7970	2470	6540	7090	2240	2220
28	1450	1940	1940	2150	4340	4970	7130	2450	6340	7140	2290	2020
29	1520	1930	1950	2130	---	5130	5700	2450	6250	7170	2290	1890
30	1520	1920	1980	2120	---	5250	4260	2390	6200	7230	2140	2090
31	1480	---	1910	2170	---	5360	---	2260	---	7350	2120	---
TOTAL	61790	59480	69790	80990	65550	151470	219470	113400	113110	207080	108590	60650
MEAN	1993	1983	2251	2613	2341	4886	7316	3658	3770	6680	3503	2022
MAX	3590	2570	3100	3400	4340	5880	11900	4510	6580	8630	7850	2600
MIN	1400	1470	1880	1880	1870	3240	3360	2260	1770	5430	2120	1660
CFSM	.39	.38	.44	.50	.45	.94	1.41	.71	.73	1.29	.68	.39
IN.	.44	.43	.50	.58	.47	1.09	1.58	.81	.81	1.49	.78	.44

CAL YR 1988 TOTAL 1057206 MEAN 2889 MAX 9620 MIN 879 CFSM .56 IN 7.59
WTR YR 1989 TOTAL 1311370 MEAN 3593 MAX 11900 MIN 1400 CFSM .69 IN 9.42

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
11...	1340	3610	104	102	7.20	7.50	20.0	24.0	8.5	94
NOV										
15...	1525	2190	145	147	7.40	7.80	18.0	24.5	8.4	88
DEC										
08...	0810	3080	130	128	7.20	7.50	10.0	6.0	10.7	94
JAN										
10...	1415	3330	116	118	--	7.60	13.0	20.5	9.8	92
FEB										
07...	1550	2110	140	139	7.71	7.60	17.5	20.5	9.0	94
MAR										
09...	0840	5850	95	100	7.20	7.20	10.0	6.5	9.3	82
APR										
11...	1330	5090	86	84	7.43	7.30	15.0	14.5	8.9	88
MAY										
10...	1345	4500	103	103	7.39	7.30	21.0	25.0	7.1	80
JUN										
14...	0750	4750	89	92	7.38	7.40	26.0	29.5	6.2	76
JUL										
11...	1425	6530	89	89	7.37	7.30	28.0	31.5	6.3	80
AUG										
21...	1340	2330	135	141	7.29	7.40	28.5	32.0	7.2	93
SEP										
26...	0615	2060	169	153	--	7.70	21.0	19.0	7.6	86

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT							
11...	70	24	--	0.5	170	25	21
NOV							
15...	25	10	--	1.1	40	38	4
DEC							
08...	40	15	--	1.2	20	33	14
JAN							
10...	30	27	--	1.2	80	28	20
FEB							
07...	30	11	--	0.9	20	38	14
MAR							
09...	70	34	--	2.7	70	23	21
APR							
11...	50	37	--	0.8	4900	27	32
MAY							
10...	60	35	--	0.8	50	30	48
JUN							
14...	140	64	--	1.1	70	24	29
JUL							
11...	65	25	--	0.8	50	27	15
AUG							
21...	40	35	32	1.1	1700	44	52
SEP							
26...	15	15	16	0.6	1300	45	18

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
11...	0.450	0.030	--	--	--	0.150	8.2
NOV							
15...	0.750	0.080	--	--	--	0.190	5.6
DEC							
08...	--	0.160	--	--	--	0.120	3.6
JAN							
10...	0.180	0.040	--	--	--	0.140	3.1
FEB							
07...	0.680	0.030	--	--	--	0.160	3.6
MAR							
09...	0.300	<0.030	--	--	--	0.120	6.8
APR							
11...	0.420	<0.030	--	--	--	0.130	7.8
MAY							
10...	0.470	<0.030	--	--	--	0.160	5.8
JUN							
14...	0.140	<0.030	--	--	--	0.140	8.8
JUL							
11...	0.320	<0.030	--	--	--	0.150	4.8
AUG							
21...	0.740	0.140	0.26	0.40	1.1	0.170	--
SEP							
26...	0.780	0.040	1.9	1.9	2.7	0.200	--

02216180 TURNPIKE CREEK NEAR MCRAE, GA.

LOCATION.--Lat 31°59'29", long 82°55'19", Telfair County, Hydrologic Unit 03070105, on downstream side of bridge on U.S. Highways 319 and 441, 4.8 mi south of McRae.

DRAINAGE AREA.--49.2 mi².

PERIOD OF RECORD.--January 1983 to current year.

GAGE.--Water-stage recorder. Datum of gage is 173.17 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--No estimated daily discharges. Records good, except those less than 10 ft³/s, and greater than 1.0 ft³/s, which are fair, and those less than or equal to 1.0 ft³/s, which are poor.

AVERAGE DISCHARGE.--6 years, 42.0 ft³/s, 11.59 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,200, Nov. 22, 1985, gage height, 10.56 ft; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
July 31	2400	*359	*7.38

Minimum discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	.64	5.4	10	7.1	37	21	4.4	.00	146	295	17
2	2.3	.72	4.7	14	7.1	55	16	33	.00	122	224	8.8
3	5.0	.44	3.9	11	6.5	129	12	63	.00	86	100	5.1
4	26	.90	3.5	9.2	6.1	172	9.3	30	.00	58	46	4.6
5	30	6.3	3.1	7.8	4.9	154	7.6	19	.00	49	28	3.8
6	17	7.6	2.7	6.2	4.4	123	6.6	11	9.7	50	17	3.6
7	8.7	6.3	3.0	6.0	5.2	82	6.2	6.3	30	43	10	2.5
8	5.3	3.8	2.7	5.7	5.2	59	5.6	4.1	35	40	6.7	2.0
9	3.3	2.8	2.6	5.3	4.5	46	9.2	2.8	51	22	5.5	1.5
10	2.4	2.3	3.2	4.9	3.7	39	70	2.5	127	29	5.4	.84
11	1.9	1.8	4.4	4.9	3.3	34	258	4.8	83	14	5.0	.76
12	1.5	1.8	11	5.0	3.5	30	241	4.9	67	6.9	4.4	.15
13	1.1	1.5	11	5.1	3.2	28	181	3.3	30	6.0	3.6	.06
14	.80	1.2	8.2	5.0	2.9	26	110	2.5	10	3.8	3.2	.03
15	.57	1.0	6.6	5.0	2.8	23	85	2.1	5.8	31	5.8	.02
16	.39	.97	7.1	4.9	2.6	21	98	1.5	5.0	44	6.9	.01
17	.24	11	10	4.7	2.4	19	82	1.0	14	42	5.6	.01
18	.14	8.7	8.5	5.3	2.2	20	56	.42	28	49	6.9	.00
19	.07	5.4	6.8	6.5	2.2	18	37	.17	53	34	7.4	.00
20	.02	4.2	6.0	5.8	2.2	14	28	.06	151	25	5.2	.00
21	.00	3.6	5.4	4.8	12	15	21	.04	138	33	3.8	.00
22	.01	3.0	5.4	4.1	78	24	21	.02	138	61	2.8	.00
23	.02	2.9	4.7	3.5	115	57	18	.02	141	231	2.0	.00
24	.01	4.7	4.7	3.2	85	132	15	.01	105	259	2.3	.00
25	.00	4.8	4.7	3.0	60	122	9.9	.00	74	198	2.9	.00
26	.00	4.1	4.3	2.8	36	90	7.0	.00	55	102	3.0	.00
27	.00	3.7	3.9	3.1	22	59	5.4	.00	37	72	3.1	.00
28	.35	7.0	4.1	2.8	18	36	4.1	.00	18	47	2.4	.00
29	.73	9.6	4.2	2.5	—	24	3.1	.00	38	24	1.6	.00
30	.72	7.1	4.1	2.5	—	19	2.5	.00	70	15	12	.01
31	.60	—	4.8	5.0	—	27	—	.00	—	130	20	—
TOTAL	111.27	119.87	164.7	169.6	508.0	1734	1446.5	196.94	1513.50	2072.7	847.5	50.79
MEAN	3.59	4.00	5.31	5.47	18.1	55.9	48.2	6.35	50.5	66.9	27.3	1.69
MAX	30	11	11	14	115	172	258	63	151	259	295	17
MIN	.00	.44	2.6	2.5	2.2	14	2.5	.00	.00	3.8	1.6	.00
CFSM	.07	.08	.11	.11	.37	1.14	.98	.13	1.03	1.36	.56	.03
IN.	.08	.09	.12	.13	.38	1.31	1.09	.15	1.14	1.57	.64	.04

CAL YR 1988	TOTAL	10957.60	MEAN	29.9	MAX	563	MIN	.00	CFSM	.61	IN	8.28
WTR YR 1989	TOTAL	8935.37	MEAN	24.5	MAX	295	MIN	.00	CFSM	.50	IN	6.75

02217475 MIDDLE OCONEE RIVER NEAR ARCADE, GA.

LOCATION.–Lat 34°01'54", long 83°33'48", Jackson-Bartow County line, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 82, 1.7 mi downstream from Mulberry River, 3.2 mi upstream from Redstone Creek, and 3.2 mi south of Arcade.
DRAINAGE AREA.–340 mi^2.
PERIOD OF RECORD.–March 1987 to current year.
GAGE.–Water-stage recorder. Elevation of gage is 660 ft above National Geodetic Vertical Datum of 1929 (from topographic map).
REMARKS.–No estimated daily discharges. Records good.
EXTREMES FOR PERIOD OF RECORD.–Maximum discharge observed, 7,410 ft^3/s, March 1, 1987, gage height 19.66 ft; minimum daily discharge, 16 ft^3/s, July 20-21, 1988.
EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 3,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 21	2330	*6,070	*18.02	No other peak greater than base discharge.			

Minimum daily discharge, 70 ft^3/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	151	201	284	178	744	268	235	130	367	333	195
2	661	148	180	286	174	471	256	670	124	331	355	188
3	473	128	177	276	173	425	259	371	119	371	339	175
4	328	102	169	415	170	380	291	271	122	864	282	161
5	215	187	158	287	174	543	830	271	145	656	259	148
6	148	282	156	248	209	565	626	341	169	660	235	160
7	122	170	151	256	214	527	449	277	210	752	220	176
8	105	156	152	236	225	412	420	228	182	542	212	171
9	99	155	152	223	193	356	617	286	188	429	203	163
10	92	142	149	224	180	327	495	544	185	359	198	150
11	97	135	142	246	172	323	437	384	155	315	197	148
12	86	121	137	229	170	337	392	295	134	293	189	154
13	81	115	136	319	167	296	358	259	133	264	187	178
14	77	118	137	368	166	269	329	253	144	250	189	169
15	80	121	138	337	164	257	355	334	166	239	220	159
16	77	127	139	328	164	250	368	314	519	668	228	263
17	77	189	135	282	161	243	315	255	1570	2860	203	222
18	78	187	128	256	172	235	287	224	565	746	192	169
19	80	148	125	235	208	236	276	183	376	473	189	157
20	83	139	131	224	213	256	265	202	1440	781	182	150
21	99	134	132	210	526	307	257	214	4900	823	175	151
22	113	131	131	196	766	437	250	193	4880	1270	173	510
23	103	129	136	195	433	627	236	184	3030	985	165	559
24	86	130	145	191	339	810	229	176	1220	804	158	289
25	80	129	154	188	292	531	218	162	734	571	155	286
26	82	129	144	188	265	418	209	157	572	464	153	2010
27	81	214	131	197	257	364	200	154	474	399	763	1040
28	88	448	132	190	621	333	195	145	415	360	362	504
29	84	298	135	180	—	308	187	139	410	324	253	479
30	77	229	141	179	—	308	188	136	411	335	219	749
31	85	—	200	184	—	306	—	137	—	356	201	—
TOTAL	4107	4992	4574	7657	7146	12201	10062	7994	23822	18911	7389	10033
MEAN	132	166	148	247	255	394	335	258	794	610	238	334
MAX	661	448	201	415	766	810	830	670	4900	2860	763	2010
MIN	70	102	125	179	161	235	187	136	119	239	153	148
CFSM	.39	.49	.44	.73	.75	1.16	.99	.76	2.34	1.79	.70	.98
IN.	.45	.55	.50	.84	.78	1.33	1.10	.87	2.61	2.07	.81	1.10

CAL YR 1988 TOTAL 70882 MEAN 194 MAX 3130 MIN 16 CFSM .57 IN 7.76
WTR YR 1989 TOTAL 118888 MEAN 326 MAX 4900 MIN 70 CFSM .96 IN 13.01

02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA.

LOCATION.--Lat 33°56'58", long 83°25'43", Clarke County, Hydrologic Unit 03070101, on left bank 0.5 mi upstream from U.S. Highway 78 and U.S. Highway 29 Bus., 2 mi west of Athens, and 5 mi upstream from Barber Creek.

DRAINAGE AREA.--398 mi².

PERIOD OF RECORD.--October 1901 to September 1902, January 1929 to March 1932, May 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 555.66 ft above National Geodetic Vertical Datum of 1929. Oct. 11, 1901, to Oct. 25, 1902, nonrecording gage at site 1 mi upstream at different datum. Jan. 16, 1929, to Mar. 15, 1932, and Apr. 29, 1937, to Sept. 30, 1940, water-stage recorder at site 4 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey. Diversion upstream from station for municipal supply of Athens.

AVERAGE DISCHARGE.--55 years (water years 1902, 1930-31, 1938-89), 511 ft³/s, 17.44 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 19,600 ft³/s, Feb. 28, 1902, gage height, 25.5 ft, site and datum then in use; minimum daily, 8.2 ft³/s, Aug. 8, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,800 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
June 22	0900	*5,930	*13.14	No other peak greater than base discharge.			

Minimum daily discharge, 79 ft³/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	160	257	297	193	886	343	263	130	416	483	225
2	546	184	215	349	189	560	320	638	123	372	418	217
3	613	168	217	302	195	489	321	496	116	394	415	203
4	400	151	189	451	191	457	364	340	128	795	340	193
5	276	167	182	369	204	541	846	304	151	753	301	183
6	196	336	186	296	229	609	826	377	194	700	274	177
7	137	244	171	294	258	619	537	344	205	787	251	205
8	137	183	169	280	238	491	494	266	225	615	236	205
9	115	182	146	253	235	421	660	291	205	484	236	196
10	131	156	175	238	193	381	603	546	207	404	236	195
11	106	165	157	268	190	367	511	481	182	342	228	182
12	113	157	173	278	185	401	463	354	154	323	224	150
13	99	146	138	340	182	359	420	294	122	293	219	195
14	100	126	141	422	182	333	383	293	155	279	223	193
15	92	140	158	396	182	313	393	367	156	281	262	210
16	103	156	157	388	186	301	427	372	285	561	267	276
17	82	231	147	342	183	298	371	303	1550	2890	245	301
18	104	231	159	294	193	288	332	260	759	1180	220	211
19	81	205	147	265	221	282	312	215	430	576	222	185
20	101	162	135	254	232	307	296	230	983	831	224	183
21	92	161	167	251	385	340	290	236	3680	1180	214	186
22	120	165	153	227	838	506	284	225	5450	1280	204	411
23	134	146	145	224	516	663	278	218	3720	1220	194	717
24	128	151	162	192	407	965	247	214	1680	951	188	370
25	90	142	175	214	353	668	251	180	937	724	182	340
26	86	161	173	210	323	512	232	153	691	561	192	1760
27	106	244	159	215	310	443	228	190	563	482	607	1430
28	107	548	147	227	485	409	223	160	467	427	514	606
29	109	411	144	197	---	380	228	164	448	402	306	508
30	89	283	150	209	---	374	229	145	434	390	261	676
31	95	---	205	207	---	378	---	134	---	445	235	---
TOTAL	4767	6062	5199	8749	7678	14341	11712	9053	24530	21338	8621	11139
MEAN	154	202	168	282	274	463	390	292	818	688	278	371
MAX	613	548	257	451	838	965	846	638	5450	2890	607	1760
MIN	79	126	135	192	182	282	223	134	116	279	182	150
CFSM	.39	.51	.42	.71	.69	1.16	.98	.73	2.06	1.73	.70	.93
IN.	.45	.57	.49	.82	.72	1.34	1.09	.85	2.29	1.99	.81	1.04

CAL YR 1988	TOTAL	80132.7	MEAN	219	MAX	3190	MIN	8.7	CFSM	.55	IN 7.49
WTR YR 1989	TOTAL	133189.0	MEAN	365	MAX	5450	MIN	79	CFSM	.92	IN 12.45

02217740 NORTH OCONEE RIVER ABOVE ATHENS, GA.

LOCATION.--Lat 33°58'28", long 83°22'56", Clarke County, Hydrologic Unit 03070101, at City of Athens water intake, 0.3 mi north of the Athens city limits.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
DEC 14...	1320	140	67	70	7.30	7.20	4.5	19.5	12.0	94
MAR 15...	1350	220	67	63	7.10	7.00	15.0	26.0	9.5	96
JUN 13...	0900	100	72	71	7.10	7.00	22.5	27.0	7.3	85
SEP 20...	0815	110	72	70	7.34	7.10	20.0	22.5	6.6	74

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 14...	11	1.7	490	25	10	0.350	0.210	0.080	1.5
MAR 15...	14	1.6	80	21	12	0.450	0.100	0.080	2.2
JUN 13...	22	0.8	--	26	14	0.340	0.060	0.110	2.8
SEP 20...	17	1.6	<20	25	5	0.250	<0.030	0.320	--

02218000 OCONEE RIVER NEAR WATKINSVILLE, GA.

LOCATION.--Lat 33 51'21", long 83 19'35", Oconee-Clarke County line, Hydrologic Unit 03070101, at bridge on Barnett Shoals Road, 1 mi upstream from Barnett Shoals Dam and 4 mi east of Watkinsville.

DRAINAGE AREA.--783 mi^2.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperataure, Air Temperataure, and Dissolved Oxygen are by the U.S. Geological Survey. Water-discharge records for water years 1901-02 are published in records of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
12...	1350	135	95	98	7.10	7.20	15.5	21.0	8.3	--
NOV										
08...	1415	80	95	93	--	7.40	11.5	23.0	9.3	86
DEC										
14...	1240	50	104	103	6.70	7.20	4.5	18.0	12.4	97
JAN										
10...	1320	450	85	85	7.00	7.30	9.0	9.0	9.2	79
FEB										
15...	1210	270	92	89	7.00	7.10	12.0	24.0	9.2	86
MAR										
15...	1250	470	81	79	6.90	7.10	15.0	26.0	9.2	93
APR										
12...	1120	1000	73	72	6.80	7.00	11.0	17.0	10.4	95
MAY										
10...	1110	1000	78	75	7.10	7.10	17.0	23.5	8.1	86
JUN										
13...	1000	225	103	103	7.10	7.10	23.5	28.5	6.6	79
JUL										
19...	1240	2100	55	55	6.80	6.60	24.0	32.0	7.4	--
AUG										
09...	1200	350	90	89	7.10	7.10	23.0	24.0	7.1	84
SEP										
21...	0745	310	98	94	7.32	6.80	21.5	21.5	6.8	78

02218000 OCONEE RIVER NEAR WATKINSVILLE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT						
12...	17	5	1.2	1100	22	17
NOV						
08...	28	18	1.8	1700	25	11
DEC						
14...	10	15	3.0	3300	25	6
JAN						
10...	14	6	2.1	260	23	12
FEB						
15...	12	13	2.0	1300	23	9
MAR						
15...	15	19	2.1	790	19	11
APR						
12...	21	17	1.4	270	18	11
MAY						
10...	47	20	2.2	3300	21	40
JUN						
13...	8.0	34	1.2	--	23	2
JUL						
19...	70	--	1.1	3300	14	58
AUG						
09...	12	12	0.8	2300	22	10
SEP						
21...	12	--	--	--	19	8

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
12...	1.44	0.080	0.42	0.50	1.9	0.290	2.7
NOV							
08...	1.11	0.130	0.37	0.50	1.6	0.230	4.4
DEC							
14...	1.52	0.900	0.10	1.0	2.5	0.250	2.2
JAN							
10...	0.180	0.030	0.27	0.30	0.48	0.250	3.1
FEB							
15...	1.38	0.260	0.34	0.60	2.0	0.700	2.6
MAR							
15...	1.14	0.240	0.46	0.70	1.8	0.190	3.0
APR							
12...	0.710	0.160	0.34	0.50	1.2	0.160	3.3
MAY							
10...	0.830	0.190	0.61	0.80	1.6	0.220	4.9
JUN							
13...	1.59	0.110	0.29	0.40	2.0	0.250	10
JUL							
19...	0.390	0.060	--	--	--	0.120	6.5
AUG							
09...	1.30	0.120	0.48	0.60	1.9	0.540	3.1
SEP							
21...	1.38	<0.030	--	--	--	0.540	--

02218300 OCONEE RIVER NEAR PENFIELD, GA.

LOCATION.–Lat 33°43'16", long 83°17'44", Greene County, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 15, 7.0 mi upstream from Greenbrier Creek, 8.0 mi northwest of Penfield, and 10.0 mi southeast of Watkinsville.

DRAINAGE AREA.–940 mi^2.

PERIOD OF RECORD.–Water years 1970-77 (annual maximum), August 1977 to current year.

GAGE.–Water-stage recorder. Datum of gage is 433.26 ft above National Geodetic Vertical Datum of 1929. Nov. 4, 1969 to July 21, 1977, crest-stage gage at same site and datum.

REMARKS.–Estimated daily discharges: July 31-Aug. 23. Records good, except those for the period of estimated daily discharges, which are fair. Some regulation at low flow from manipulation of Barnett Shoals Dam.

AVERAGE DISCHARGE.–12 years, 1,110 ft^3/s, 16.04 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 19,700 ft^3/s, Mar. 16, 1976, gage height, 22.11 ft; minimum daily discharge, 33 ft^3/s, Aug. 26, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.–Flood of Apr. 6, 1936, reached a stage of 26.7 ft, discharge, 41,500 ft^3/s, from rating curve extended above 21,000 ft^3/s on basis of computation of flow over Barnett Shoals Dam located 10 mi upstream.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 4,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 23	1700	*9,780	*16.58	July 18	0600	5,070	12.70

Minimum daily discharge, 145 ft^3/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	284	619	520	487	1450	802	617	342	1150	1500	584
2	177	327	531	651	486	1510	731	929	340	907	1150	473
3	1270	351	470	693	478	1320	700	1210	342	813	1000	437
4	1210	301	430	796	467	1110	739	859	426	1150	880	412
5	777	458	412	893	487	1110	1490	791	382	1730	740	379
6	519	454	382	723	597	1320	1960	879	461	1710	670	373
7	380	569	372	656	603	1360	1490	857	508	1710	600	374
8	303	433	363	640	596	1230	1220	737	500	1500	560	405
9	264	377	361	595	575	1020	1740	851	503	1170	520	400
10	245	361	341	567	528	903	1680	1250	475	930	500	381
11	242	326	349	553	487	829	1450	1320	459	787	500	368
12	223	315	329	583	469	799	1230	1040	418	689	480	353
13	216	293	332	746	466	794	1090	815	367	643	480	372
14	194	276	318	847	462	738	992	722	349	600	480	385
15	193	277	319	894	463	702	1590	842	388	574	480	378
16	195	278	322	836	440	665	1410	871	553	757	600	619
17	196	355	318	785	440	636	1130	778	1350	3740	560	638
18	179	464	316	710	443	625	965	663	1870	4670	500	529
19	199	429	305	658	480	605	875	590	1280	2670	500	413
20	183	355	306	616	545	602	836	541	972	2490	490	372
21	205	333	306	581	705	683	777	550	2820	3160	470	388
22	238	314	309	551	1350	1070	744	548	5590	3260	460	1160
23	234	309	315	528	1460	1630	718	558	9290	3030	440	1520
24	266	314	321	510	1170	2360	691	518	7950	2440	430	1260
25	232	300	330	506	874	1950	640	478	3230	1890	438	853
26	197	289	340	508	762	1490	621	444	1610	1510	698	2110
27	194	437	342	512	702	1170	595	419	1210	1180	654	3610
28	209	1200	328	531	830	1010	567	412	1180	1000	1220	2450
29	206	1190	320	498	—	922	569	383	1500	876	709	1550
30	208	815	314	486	—	899	547	376	1030	857	553	1390
31	206	—	370	488	—	871	—	356	—	1100	510	—
TOTAL	9705	12784	11090	19661	17852	33383	30589	22204	47695	50693	19772	24936
MEAN	313	426	358	634	638	1077	1020	716	1590	1635	638	831
MAX	1270	1200	619	894	1460	2360	1960	1320	9290	4670	1500	3610
MIN	145	276	305	486	440	602	547	356	340	574	430	353
CFSM	.33	.45	.38	.67	.68	1.15	1.09	.76	1.69	1.74	.68	.88
IN.	.38	.51	.44	.78	.71	1.32	1.21	.88	1.89	2.01	.78	.99

CAL YR 1988	TOTAL	188692	MEAN	516	MAX	6000	MIN	48	CFSM	.55	IN	7.47
WTR YR 1989	TOTAL	300364	MEAN	823	MAX	9290	MIN	145	CFSM	.88	IN	11.89

02219000 APALACHEE RIVER NEAR BOSTWICK, GA.

LOCATION.--Lat 33°47'17", long 83°28'27", Morgan-Oconee County line, Hydrologic Unit 03070101, on left bank 1,000 ft upstream from bridge on Price Mill Road, 3.0 mi southwest of Bishop, 4.0 mi upstream from Jacks Creek, and 4.0 mi northeast of Bostwick.
DRAINAGE AREA.--176 mi^2.
PERIOD OF RECORD.--July 1944 to December 1949, April 1977 to current year.
GAGE.--Water-stage recorder. Elevation of gage is 535 ft above National Geodetic Vertical Datum of 1929 (from topographic map).
REMARKS.--No estimated daily discharges. Records good. Some regulation at low flow from manipulation of High Shoals Dam.
AVERAGE DISCHARGE.--17 years (water years 1945-49, 1978-89), 228 ft^3/s, 17.59 in/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft^3/s, Jan. 6, 1946, gage height, 8.9 ft; minimum daily discharge 7.5 ft^3/s, Aug. 10, 1986.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 22	1700	*2,570	*4.76	No other peak greater than base discharge.			

Minimum daily discharge, 38 ft^3/s, June 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	87	173	134	106	221	145	117	55	147	425	113
2	195	78	189	139	98	218	122	165	42	130	295	77
3	449	72	179	131	97	193	110	201	65	129	283	55
4	239	64	173	156	94	206	130	157	78	156	227	97
5	156	88	168	137	93	196	472	140	40	259	181	72
6	118	100	163	124	114	217	478	165	96	244	159	71
7	94	105	161	125	117	207	326	160	96	239	143	72
8	82	85	172	129	103	183	266	121	91	218	130	75
9	75	78	197	130	109	160	421	164	66	163	123	82
10	69	79	195	125	85	147	373	178	97	129	118	54
11	65	82	193	122	86	138	294	194	81	127	114	108
12	61	78	187	128	75	131	241	140	59	109	112	47
13	57	73	182	184	109	125	223	132	79	75	110	95
14	54	71	181	187	128	120	193	130	38	124	109	84
15	51	70	169	169	120	100	206	125	73	106	140	59
16	51	69	132	155	112	103	214	166	81	314	125	122
17	51	92	123	141	86	105	177	137	167	1470	117	113
18	50	125	122	130	85	92	153	91	279	1090	112	99
19	49	104	124	123	91	96	152	128	210	1344	107	
20	51	92	117	119	98	109	148	94	199	723	110	76
21	55	90	113	114	130	141	134	79	463	1650	104	79
22	62	86	106	110	203	206	131	113	2010	1230	99	204
23	67	81	104	106	198	325	122	109	1120	666	94	287
24	54	80	103	105	160	414	115	105	553	507	85	258
25	54	79	105	103	136	299	114	87	315	344	69	160
26	52	77	100	101	122	224	133	90	228	291	70	439
27	52	134	85	103	115	188	117	52	186	235	85	628
28	52	310	79	108	146	158	111	80	166	206	117	426
29	53	278	83	106	—	154	107	69	137	182	111	261
30	70	197	83	102	—	145	93	64	151	195	76	275
31	74	—	102	120	—	136	—	62	—	284	58	—
TOTAL	2703	3104	4363	3966	3216	5457	6021	3815	7321	12086	4208	4667
MEAN	87.2	103	141	128	115	176	201	123	244	390	136	156
MAX	449	310	197	187	203	414	478	201	2010	1650	425	628
MIN	41	64	79	101	75	92	93	52	38	75	58	47
CFSM	.50	.59	.80	.73	.65	1.00	1.14	.70	1.39	2.22	.77	.89
IN.	.57	.66	.92	.84	.68	1.15	1.27	.81	1.55	2.55	.89	.99

CAL YR 1988	TOTAL	38701	MEAN	106	MAX	793	MIN	14	CFSM	.60	IN	8.18
WTR YR 1989	TOTAL	60927	MEAN	167	MAX	2010	MIN	38	CFSM	.95	IN	12.88

02220900 LITTLE RIVER NEAR EATONTON, GA.

LOCATION.--Lat 33°18'50", long 83°26'14", Putnam County, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 16, 0.9 mi downstream from Glady Creek, and 3.0 mi west of Eatonton.

DRAINAGE AREA.--262 mi^2.

PERIOD OF RECORD.--Water years 1971-77 (annual maximum), August 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 370 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Feb. 19, 1970 to Aug. 1, 1977, crest-stage gage and Aug. 2, 1977 to Aug. 25, 1987, water-stage recorder at same site and datum 4.00 ft higher.

REMARKS.--Estimated daily discharges: June 19-22. Records good, except those for periods of estimated daily discharge, which are fair.

AVERAGE DISCHARGE.--12 years, 204 ft^3/s, 10.57 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s, Mar. 3, 1971, gage height, 24.4 ft; minimum daily discharge, 1.9 ft^3/s, Aug. 4, 1988, but may have been less during the period of no gage height record, Aug. 2-8, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 15	1200	*1,920	*11.81

Minimum daily discharge, 20 ft^3/s, Oct. 15, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	31	95	108	62	161	129	105	46	86	204	52
2	30	36	78	116	61	153	110	270	44	76	147	52
3	55	40	67	98	60	180	102	200	42	71	121	48
4	137	38	62	144	60	179	103	138	54	110	97	45
5	97	58	58	155	71	163	280	144	71	168	82	40
6	62	96	55	118	107	173	329	180	123	156	72	41
7	44	95	54	100	101	201	229	148	136	138	64	46
8	35	68	53	91	86	182	188	114	101	107	58	50
9	31	55	53	87	80	151	688	131	98	91	52	48
10	28	54	53	81	70	136	1050	507	85	116	49	42
11	27	48	53	76	65	127	908	552	73	127	46	39
12	24	46	52	73	62	117	571	308	62	96	44	36
13	23	45	50	78	61	111	377	202	54	111	43	37
14	22	43	49	101	60	104	280	159	48	112	43	35
15	20	42	51	110	59	99	1230	159	47	139	42	40
16	21	42	55	105	61	96	1390	153	88	266	141	41
17	21	47	54	99	59	93	714	129	178	444	90	56
18	21	53	50	87	60	91	396	109	147	245	67	49
19	21	49	48	80	67	85	297	97	500	153	58	39
20	20	47	47	78	77	80	241	94	1000	210	100	34
21	22	46	48	75	223	82	202	93	1200	216	79	33
22	28	46	49	71	318	127	176	90	600	173	60	404
23	38	45	50	67	232	325	156	86	313	215	53	536
24	39	45	51	66	164	550	142	83	196	239	57	378
25	31	45	54	66	136	409	129	75	146	168	54	157
26	27	45	52	65	121	266	118	70	116	164	50	291
27	26	57	49	64	116	196	108	64	97	143	55	416
28	28	139	49	64	133	165	99	59	93	112	62	230
29	29	184	50	63	---	146	92	53	117	92	64	158
30	30	132	50	63	---	143	88	49	104	82	54	267
31	32	---	56	62	---	145	---	48	---	144	51	---
TOTAL	1093	1817	1695	2711	2832	5236	10922	4669	5979	4770	2259	3740
MEAN	35.3	60.6	54.7	87.5	101	169	364	151	199	154	72.9	125
MAX	137	184	95	155	318	550	1390	552	1200	444	204	536
MIN	20	31	47	62	59	80	88	48	42	71	42	33
CFSM	.14	.23	.21	.33	.39	.65	1.39	.58	.76	.59	.28	.48
IN.	.16	.26	.24	.38	.40	.74	1.55	.66	.85	.68	.32	.53

CAL YR 1988	TOTAL	40329.3	MEAN	110	MAX	2430	MIN	1.9	CFSM	.42	IN	5.73
WTR YR 1989	TOTAL	47723.0	MEAN	131	MAX	1390	MIN	20	CFSM	.50	IN	6.78

02221525 MURDER CREEK BELOW EATONTON, GA.

LOCATION.–Lat 33°15'08", long 83°28'53", Putnam County, Hydrologic Unit 03070101, in left bank 250 ft upstream from bridge on county road S-777, 3.0 mi downstream from Beaverdam Creek, 5.8 mi upstream from mouth, and 7.5 mi southwest of Eatonton.

DRAINAGE AREA.–190 mi^2.

PERIOD OF RECORD.–April 1977 to current year.

GAGE.–Water-stage recorder. Elevation of gage is 375 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.–Estimated daily discharges: Oct. 16-18. Records good. Some diurnal fluctuation at low flow.

AVERAGE DISCHARGE.–12 years, 145 ft^3/s, 10.36 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 6,700 ft^3/s, Apr. 9, 1983, gage height, 9.67 ft; minimum daily discharge 2.1 ft^3/s, Aug. 6, 1986.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 1,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 15	1930	*1,450	*4.25

Minimum daily discharge, 19 ft^3/s, Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	34	51	61	49	121	86	103	47	70	70	32
2	23	39	48	60	49	103	79	321	45	62	64	36
3	39	39	46	56	49	144	75	143	44	58	66	33
4	88	37	45	81	49	142	76	102	51	83	56	30
5	62	52	44	80	52	130	321	108	59	140	50	28
6	39	82	43	64	87	129	286	132	101	300	46	28
7	32	51	43	59	77	133	162	105	97	152	43	36
8	27	41	43	56	65	114	133	85	68	100	40	36
9	26	38	43	56	61	100	516	92	70	109	38	33
10	25	38	43	55	55	93	902	411	64	127	38	29
11	24	37	44	54	53	87	875	289	53	93	37	27
12	23	37	44	52	53	83	500	154	46	69	36	25
13	22	36	43	55	52	79	268	115	43	63	35	31
14	20	36	42	62	51	77	194	101	40	92	35	39
15	19	36	42	60	51	74	919	101	39	79	36	30
16	20	36	44	61	51	82	1200	98	75	472	55	27
17	20	40	46	57	51	76	628	84	147	267	52	47
18	21	43	44	54	51	73	274	78	83	125	42	33
19	23	40	42	54	57	71	194	74	208	97	41	29
20	25	38	42	54	62	68	162	74	795	116	39	26
21	25	39	42	54	221	70	144	74	941	156	36	25
22	26	40	42	51	308	99	124	70	489	105	34	70
23	32	38	42	50	157	231	110	63	217	225	32	87
24	27	38	43	49	115	388	99	69	134	173	31	48
25	29	39	45	49	96	228	92	63	103	111	32	39
26	28	39	43	49	87	160	87	61	97	98	31	77
27	28	44	42	49	82	130	82	58	75	85	32	120
28	31	81	43	50	91	113	77	55	123	72	38	64
29	33	80	44	49	—	100	74	52	182	63	33	54
30	32	57	43	51	—	99	71	50	84	57	31	77
31	33	—	47	51	—	100	—	49	—	59	31	—
TOTAL	922	1325	1358	1743	2282	3697	8810	3439	4620	3878	1280	1296
MEAN	29.7	44.2	43.8	56.2	81.5	119	294	111	154	125	41.3	43.2
MAX	88	82	51	81	308	388	1200	411	941	472	70	120
MIN	19	34	42	49	49	68	71	49	39	57	31	25
CFSM	.16	.23	.23	.30	.43	.63	1.55	.58	.81	.66	.22	.23
IN.	.18	.26	.27	.34	.45	.72	1.72	.67	.90	.76	.25	.25

CAL YR 1988	TOTAL	27351.1	MEAN	74.7	MAX	1130	MIN	3.6	CFSM	.39	IN 5.36
WTR YR 1989	TOTAL	34650.0	MEAN	94.9	MAX	1200	MIN	19	CFSM	.50	IN 6.78

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.

LOCATION.–Lat 33°05'22", long 83°12'56", Baldwin County, Hydrologic Unit 03070102, on right bank at city of Milledgeville water-works intake structure at Milledgeville, 0.5 mi upstream from bridge on State Highway 24, 3.8 mi downstream from Sinclair Dam, and at mile 139.1.
DRAINAGE AREA.–2,950 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–September 1903 to current year.
REVISED RECORDS.–WSP 1142: 1928(M). WSP 1504: 1903-4, 1908, 1912-13, 1914(M), 1915-17. WSP 1554: Drainage area.
GAGE.–Water recorder. Datum of gage is 230.84 ft above National Geodetic Vertical Datum of 1929. Prior to May 23, 1906, Jan. 1 to Oct. 5, 1909, Jan. 1, 1932, to Sept. 30, 1939, nonrecording gages at site 0.5 mi downstream, and Oct. 1, 1939, to Mar. 8, 1966, water-stage recorder, 0.3 mi downstream, all at present datum. May 23, 1906, to Dec. 31, 1908, and Oct. 6, 1909, to Dec. 31, 1931, nonrecording gages at Fraleys Ferry, 6.8 mi upstream at different datum.
REMARKS.–No estimated daily discharges. Records good. Flow regulated by Lake Oconee since January 1979 and Sinclair Reservoir since November 1952. (See "Lakes and Reservoirs in Altamaha River Basin," stations 02220450 and 02225000.)
AVERAGE DISCHARGE.–86 years, 3,265 ft^3/s, 15.03 in/yr, adjusted.
EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 122,000 ft^3/s, Feb. 25, 1961, gage height, 42.9 ft, from rating curve extended above 77,000 ft^3/s; minimum daily discharge, 90 ft^3/s for several days in August and September 1925 and Aug. 3 1955.
EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known, 46.7 ft in 1886 at site 0.5 mi downstream at present datum, from information furnished by Georgia Department of Transportation.
EXTREMES FOR CURRENT YEAR.–Maximum discharge, 12,200 ft^3/s, Apr. 12, gage height, 16.14 ft; minimum daily discharge, 430 ft^3/s, Dec. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	599	628	567	1990	937	3390	1070	3550	712	1440	3730	634
2	629	621	582	2070	1090	3230	636	5240	639	1200	3370	613
3	691	609	599	2900	1740	4820	1450	3260	622	2120	3210	619
4	652	600	589	1510	1040	4520	2380	3430	617	3010	2230	630
5	640	686	611	1400	1020	5140	5530	2780	634	2280	1310	635
6	624	631	620	1670	586	3830	5300	2970	1180	2970	670	1590
7	629	622	613	1680	1490	4420	4250	1320	888	4640	961	615
8	617	604	613	1500	941	4350	3300	2380	1030	3680	664	879
9	599	625	598	2840	740	2600	5270	1400	1770	703	652	600
10	600	625	585	2380	833	2430	6930	4650	633	678	625	610
11	585	630	601	579	577	936	8240	5060	625	651	620	616
12	588	634	623	545	575	1010	8280	4610	1130	876	612	610
13	599	593	598	963	759	1500	7520	3530	864	1140	609	609
14	599	606	604	1070	704	1870	7470	1320	650	894	614	613
15	606	510	560	580	721	1310	7370	1270	676	1820	614	616
16	599	462	618	2750	520	1660	7550	1570	3900	2470	1070	623
17	595	467	582	1720	1300	2120	7460	1990	3040	4580	983	639
18	608	482	603	1300	552	1060	7280	1390	2910	6140	897	644
19	630	603	534	1510	546	1280	4510	2760	2970	5010	650	645
20	587	576	431	539	2080	1700	2360	623	3940	7450	623	646
21	587	633	430	539	3600	2820	3430	598	5660	6890	1300	2340
22	598	593	504	550	3890	4180	1300	1540	5680	4430	1570	5990
23	611	574	580	548	3830	5100	1760	628	7180	4230	655	3490
24	588	622	553	545	4680	7580	2570	603	7420	4980	1060	1850
25	604	625	570	776	1980	5840	1300	1140	7430	4700	907	3240
26	601	572	589	1960	598	4350	1700	1150	7260	3040	1400	3630
27	590	604	2020	1640	1160	3550	1980	614	4700	2830	1340	6530
28	631	621	1050	1090	2230	2580	2190	612	695	3420	2230	5260
29	631	601	588	764	—	3040	641	622	2020	1400	3100	5090
30	639	578	526	764	—	2220	624	625	2370	674	1780	3950
31	639	—	575	860	—	2550	—	619	—	2080	625	—
TOTAL	18995	17837	19716	41532	40719	96986	121651	63854	79845	92426	40681	55056
MEAN	613	595	636	1340	1454	3129	4055	2060	2662	2981	1312	1835
MAX	691	686	2020	2900	4680	7580	8280	5240	7430	7450	3730	6530
MIN	585	462	430	539	520	936	624	598	617	651	609	600
MEAN†	730	1049	890	1271	1492	3070	4065	1996	2666	3059	1234	2298
CFSM†	.25	.36	.30	43	.51	1.04	1.38	.68	.90	1.04	.42	.78
IN†.	.29	.40	.35	.50	.53	1.20	1.54	.78	1.00	1.20	.48	.87

CAL YR 1988 TOTAL 430610 MEAN 1177 MAX 9000 MIN 430 MEAN† 1214 CFSM† .41 IN† 5.57
WTR YR 1989 TOTAL 689298 MEAN 1888 MAX 8280 MIN 430 MEAN† 1983 CFSM† .67 IN† 9.10

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE OCONEE AND SINCLAIR RESERVOIRS.

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.–Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.–March 1968 to current year.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
NOV										
08...	1200	617	81	81	--	7.60	18.0	22.0	9.6	102
JAN										
10...	1115	5940	83	82	--	7.50	13.0	8.0	8.5	80
MAR										
15...	1115	606	84	82	6.90	7.10	14.0	24.0	10.2	99
MAY										
10...	0935	6300	75	74	7.00	7.00	20.0	22.5	7.1	79
JUL										
19...	1030	6160	79	76	6.70	6.80	28.0	30.0	5.9	--
SEP										
21...	1145	629	79	77	7.32	7.20	26.0	28.0	6.2	77

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
NOV										
08...	3.0	1.7	40	25	0.070	<0.030	0.040	2.9	120	30
JAN										
10...	10	1.0	20	25	0.090	<0.030	0.080	3.8	<90	10
MAR										
15...	6.0	2.0	35	22	0.130	0.110	0.060	3.7	140	10
MAY										
10...	26	1.6	1300	23	0.190	<0.030	0.080	4.6	1400	70
JUL										
19...	5.0	0.1	170	21	0.070	0.060	0.080	4.1	270	110
SEP										
21...	1.0	--	--	20	0.120	0.090	0.400	--	--	--

02223040 OCONEE RIVER NEAR HARDWICK, GA.

LOCATION.--Lat 33°01'45", long 83°11'24:, Baldwin County, Hydrologic Unit 03070102, at public boat ramp on right bank 1 mi downstream from Camp Creek, and 3 mi southeast of Hardwick.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS..--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir (see "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500). Discharge obtained from gaging staion 02223000, Oconee River at Milledgeville, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 12...	1145	601	87	86	7.30	7.30	21.5	20.0	7.9	90
NOV 08...	1120	634	88	86	7.10	7.50	16.5	22.0	8.5	88
DEC 14...	1040	601	86	87	--	7.40	11.0	13.0	10.4	94
JAN 10...	1040	584	84	83	--	7.30	12.0	7.5	8.3	76
FEB 15...	1030	547	88	86	--	7.30	13.5	19.5	10.0	95
MAR 15...	1050	617	85	85	--	7.10	14.0	23.0	9.5	93
APR 12...	0940	9180	79	77	--	7.10	16.0	12.5	8.9	90
MAY 10...	0910	884	54	53	6.40	6.60	18.0	21.0	7.6	81
JUN 13...	1200	612	83	81	7.02	6.90	25.0	30.5	6.7	81
JUL 19...	1100	730	75	76	7.00	7.00	27.0	31.0	6.0	--
AUG 09...	1000	681	80	80	7.00	7.00	26.0	21.5	6.9	85
SEP 21...	1030	629	82	81	7.18	7.00	25.5	27.0	6.6	82

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 12...	6.0	1.1	15000	24	0.120	0.140	0.120	3.1
NOV 08...	6.0	1.7	1700	26	0.080	0.130	0.060	2.9
DEC 14...	6.0	1.8	50	23	0.100	0.220	0.060	--
JAN 10...	36	1.3	1100	25	0.780	0.110	0.100	5.0
FEB 15...	7.0	1.9	50	24	0.120	0.100	0.490	3.0
MAR 15...	9.0	2.1	490	23	0.150	0.110	0.100	3.4
APR 12...	15	1.2	330	21	0.160	0.030	0.080	4.9
MAY 10...	200	2.0	1700	15	0.220	0.070	0.290	14
JUN 13...	8.0	0.6	--	22	0.180	0.070	0.100	3.6
JUL 19...	4.0	0.6	80	21	0.060	0.050	0.040	3.5
AUG 09...	2.0	0.4	110	22	0.240	0.040	0.200	3.7
SEP 21...	1.0	--	--	20	0.170	0.070	0.640	--

02223250 OCONEE RIVER NEAR TOOMSBORO, GA.

LOCATION.–Lat 32°46'54", long 82°57'30", Wilkinson-Washington County line, Hydrologic Unit 03070102, at Balls Ferry Bridge on State Highway 57, 3.2 mi downstream from Commissioner Creek, 7.5 mi east of Toomsboro, and at mile 96.2.

DRAINAGE AREA.–3,770 mi².

PERIOD OF RECORD.–February 1979 to current year.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir (see "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500).

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
DEC										
07...	1420	780	153	153	7.00	7.30	11.0	22.0	8.9	81
MAR										
08...	1420	6700	89	90	6.97	7.30	10.5	4.0	9.9	88
JUN										
13...	1335	1100	114	119	7.40	7.30	27.5	33.0	7.7	98
SEP										
25...	1415	2600	100	98	--	7.00	21.0	16.5	7.4	84

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON ORGANIC TOTAL (MG/L AS C)
DEC									
07...	10	5.0	1.2	170	20	0.320	0.340	0.080	3.0
MAR									
08...	40	45	1.5	330	20	0.160	0.030	0.150	4.5
JUN									
13...	10	10	0.4	--	20	0.380	0.030	0.090	3.5
SEP									
25...	40	27	1.0	170	17	0.190	0.050	0.180	--

02223500 OCONEE RIVER AT DUBLIN, GA.

LOCATION.--Lat 32°32'40", long 82°53'41", Laurens County, Hydrologic Unit 03070102, near left bank on downstream end of pier of bridge on U.S. Highway 80 at Dublin, and at mile 74.3.

DRAINAGE AREA.--4,400 mi^2, approximately.

PERIOD OF RECORD.--January 1894 to September 1897 (gage heights only), October 1897 to current year. Gage-height records collected at same site since 1893 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 1504: 1898-1903, 1905-6, 1908-9, 1912, 1913(M), 1925(M).

GAGE.--Water-stage recorder. Datum of gage is 149.08 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 14, 1932, nonrecording gage and Apr. 15, 1932, to June 17, 1934, water-stage recorder at site 420 ft downstream at datum 3.0 ft higher, Oct. 1, 1933, to July 17, 1934 corrected to present datum. July 18, 1934, to Apr. 14, 1936, water-stage recorder, April 15, 1936, to Oct. 12, 1938, nonrecording gage, and Oct. 13, 1938, to Jan. 20, 1953, water-stage recorder at site 80 ft upstream at present datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.) Records of chemical analyses for the water years 1968-73 and continuous water temperature record collected October 1963 to September 1964 and June 1979 to September 1983 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--92 years (water years 1898-1989), 4,896 ft^3/s, 15.11 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,700 ft^3/s, Apr. 12, 13, 1936, gage height, 32.97 ft; minimum, 333 ft^3/s, Sept. 12, 1951, gage height, 0.48 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, that of Apr. 12, 13, 1936.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 19,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 15	0100	*12,200	*14.96

Minimum daily discharge, 671 ft^3/s, Sept. 20.

02223500 OCONEE RIVER AT DUBLIN, GA.–Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	770	825	895	1130	1290	2810	3520	1460	865	2500	1670	2330
2	779	983	877	2110	1420	3850	2940	2550	843	2490	3210	1480
3	869	1040	872	3180	1430	5720	2080	6020	872	1790	3930	1060
4	1350	1080	881	3570	1580	7180	1650	5580	829	1730	3870	920
5	1880	1120	871	3780	1920	7660	2400	4470	796	2840	3190	869
6	1750	1180	849	2830	1520	8230	4900	4610	809	3160	2480	834
7	1750	1260	857	2660	1520	7270	6170	4180	886	3140	1670	888
8	1560	1150	869	2580	1360	6910	5390	3290	1240	4440	1110	1560
9	1300	1100	863	2250	1760	6490	5510	2770	1570	4650	1180	1050
10	1130	1070	861	2990	1440	5680	7260	3280	2350	3330	960	1060
11	1030	1020	873	3470	1280	4180	9730	5000	2260	1710	876	853
12	955	986	876	2910	1210	3300	10900	6750	1230	1270	822	784
13	895	951	893	1820	1030	2250	11600	6830	1010	1190	791	750
14	852	910	912	1680	1040	2120	12100	5850	1280	1450	785	727
15	832	864	900	1980	1060	2600	12100	4160	1110	1570	862	713
16	815	845	913	1780	1060	2560	11700	2580	939	1640	1060	697
17	799	807	919	2040	1070	2230	10800	2210	1930	2880	1120	691
18	788	812	957	2970	1050	2880	10100	2330	3510	4590	1500	678
19	770	815	938	2190	1400	2560	9650	2450	3300	6310	1490	673
20	774	834	937	2030	1020	1760	9030	2630	3710	5990	1230	671
21	779	885	867	1800	1520	2310	6090	2450	4370	7460	977	678
22	749	876	795	1240	4900	2770	4840	1340	5980	8460	915	997
23	747	897	773	1140	6520	4410	3710	1250	6260	8500	1380	4220
24	746	865	821	1090	6660	6490	2740	1790	7450	8560	1540	4910
25	745	843	883	1060	6910	8500	3320	1190	7990	8520	949	3550
26	738	865	858	1080	5510	9470	2810	1070	8190	7450	1150	3100
27	734	856	858	1430	3280	8670	2180	1440	8200	6030	1380	3990
28	724	835	920	2100	2020	6810	2400	1420	7200	4680	1730	5760
29	745	871	1800	1920	—	5020	2610	1010	3730	4130	1790	6160
30	778	889	1370	1450	—	4180	2430	926	1850	3570	2790	5950
31	739	—	1050	1310	—	4010	—	894	—	2120	2720	—
TOTAL	29872	28334	28808	65570	63780	150880	182660	93780	92559	128150	51127	58603
MEAN	964	944	929	2115	2278	4867	6089	3025	3085	4134	1649	1953
MAX	1880	1260	1800	3780	6910	9470	12100	6830	8200	8560	3930	6160
MIN	724	807	773	1060	1020	1760	1650	894	796	1190	785	671

CAL YR 1988	TOTAL	651017	MEAN	1779	MAX	10500	MIN	475	MEAN†	1816	CFSM†	.41	IN†	5.57
WTR YR 1989	TOTAL	974123	MEAN	2669	MAX	12100	MIN	671	MEAN†	2764	CFSM†	.63	IN†	8.56

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE OCONEE AND SINCLAIR RESERVOIR

02223600 OCONEE RIVER AT I-16, NEAR DUBLIN, GA.

LOCATION.--Lat 32°29'05", long 82°51'45", Laurens County, Hydrologic Unit 03070102, at Interstate Highway 16, 4.0 mi upstream from Pughes Creek, 4.5 mi southeast of Dublin, and at mile 69.9.

DRAINAGE AREA.--4,400 mi^2, approximately.

PERIOD OF RECORD.--October 1973 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir (see "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500). Discharge obtained from gaging station 02223500, Oconee River at Dublin, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
11...	1120	1030	155	155	6.90	7.30	17.5	23.5	8.2	86
NOV										
15...	1300	863	141	138	7.20	7.40	17.0	23.0	8.7	90
DEC										
07...	1605	868	168	172	--	7.40	11.5	21.5	10.9	100
JAN										
10...	1155	2900	110	111	6.83	7.30	13.0	11.5	9.3	87
FEB										
07...	1330	1560	140	133	7.21	7.10	14.0	17.0	9.2	89
MAR										
08...	1620	6900	93	92	6.98	7.00	10.5	5.0	9.6	86
APR										
11...	1110	9730	78	79	7.08	7.10	14.0	11.5	8.5	82
MAY										
10...	1130	3170	95	90	7.22	7.20	20.0	26.0	7.9	87
JUN										
13...	1515	970	142	148	7.40	7.20	28.0	33.5	6.9	89
JUL										
11...	1200	1670	112	114	7.04	7.10	28.5	31.0	6.4	82
AUG										
21...	0000	970	118	114	7.18	7.30	27.0	30.0	6.3	79
SEP										
25...	1535	3000	118	115	--	7.10	23.0	16.5	6.6	77

02223600 OCONEE RIVER AT I-16, NEAR DUBLIN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 11...	80	10	--	0.6	490	20	10
NOV 15...	25	6.0	--	1.0	230	22	2
DEC 07...	10	5.0	--	1.4	50	23	1
JAN 10...	25	28	--	1.8	790	20	47
FEB 07...	35	13	--	1.3	1700	20	20
MAR 08...	40	38	--	1.5	490	17	58
APR 11...	60	50	--	0.6	790	24	66
MAY 10...	50	43	--	1.7	7000	22	23
JUN 13...	10	12	--	1.0	--	21	8
JUL 11...	50	23	--	1.2	<80	23	19
AUG 21...	40	11	19	1.2	1700	23	7
SEP 25...	40	27	22	0.8	330	18	36

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 11...	0.290	0.120	--	--	--	0.150	5.8
NOV 15...	0.430	0.100	--	--	--	0.150	4.5
DEC 07...	0.370	0.440	--	--	--	0.090	3.4
JAN 10...	0.580	--	--	--	--	0.130	5.8
FEB 07...	0.380	0.140	--	--	--	0.160	4.7
MAR 08...	0.170	<0.030	--	--	--	0.130	5.1
APR 11...	0.170	<0.030	--	--	--	0.130	7.0
MAY 10...	0.270	0.060	--	--	--	0.160	6.0
JUN 13...	0.420	0.150	--	--	--	0.120	4.4
JUL 11...	0.190	0.070	--	--	--	0.140	3.9
AUG 21...	0.370	0.200	0.30	0.50	0.87	0.140	9.2
SEP 25...	0.210	0.080	1.4	1.5	1.7	0.180	--

02224000 ROCKY CREEK NEAR DUDLEY, GA.

LOCATION.--Lat 32°29'38", long 83°08'49", Laurens County, Hydrologic Unit 03070102, on downstream side of highway bridge, 3.2 mi upstream from Buckhorn Branch, and 5 mi southwest of Dudley

DRAINAGE AREA.--62.9 mi^2.

PERIOD OF RECORD.--November 1970 to current year. Water-discharge records for water years 1952-76 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
FEB 08...	0830	12	83	96	7.57	7.40	12.0	8.3	76
JUL 18...	0830	27	63	77	7.36	7.70	24.5	6.6	79

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
FEB 08...	55	4.2	40	14	1.3	3.7	16	0.3	1.5	33
JUL 18...	–	18	28	9.1	1.4	3.1	18	0.3	1.4	23

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
FEB 08...	6.6	7.7	0.10	6.1	63	–	–	--	0.300	0.160	0.030	0.060
JUL 18...	<1.0	7.0	0.10	9.5	64	–	--	–	0.300	0.300	0.040	0.040

02224000 ROCKY CREEK NEAR DUDLEY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	PHOS-PHOROUS DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)
FEB 08...	0.47	0.34	0.50	0.40	0.80	0.56	0.040	0.030	--	20	1	<1
JUL 18...	0.46	0.86	0.50	0.90	0.80	1.2	0.090	1.30	8.4	40	--	1

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)
FEB 08...	<1	<1	1	660	<5	<5	17	<0.10	<0.1	<1	4
JUL 18...	<1	<1	1	500	3	<1	46	<0.10	<0.1	<1	<3

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.

LOCATION.–Lat 31°56'20", long 82°21'13", Appling-Toombs County line, Hydrologic Unit 03070106, on right bank 400 ft downstream from bridge on U.S. Highway 1, 2.2 mi upstream from Bay Creek, 8 mi downstream from Bullards Creek, and 12 mi north of Baxley.
DRAINAGE AREA.–11,600 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–August 1949 to June 1951, October 1970 to current year.
GAGE.–Water-stage recorder. Datum of gage is 61.51 ft above National Geodetic Vertical Datum of 1929. Aug. 13, 1949, to June 30, 1951 nonrecording gage at site 400 ft upstream at same datum.
REMARKS.–No estimated daily discharges. Records good.
AVERAGE DISCHARGE.–20 years (water years 1950, 1971-89), 10,990 ft³/s, 12.87 in/yr.
EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 97,500 ft³/s, Mar. 12, 1971, gage height, 22.7 ft; minimum daily discharge, 1,620 ft³/s, July 21, 1986.
EXTREMES OUTSIDE PERIOD OF RECORD.–Flood of Dec. 10, 1948, reached a stage of 25.1 ft, from floodmark, discharge, 130,000 ft³/s. Flood of January 1925 reached a stage of 30.0 ft, from information furnished by Georgia Department of Transportation.
EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 25,000 ft³/s and maximum (*).

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 21	1400	*26,300	*14.26	No other peak greater than base discharge			

Minimum daily discharge, 2,380 ft³/s, Oct. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3410	2440	3120	3650	4330	9640	12200	8150	3580	14100	13900	5850
2	3240	2440	3120	3540	4130	8610	11300	7330	3360	12000	13600	6500
3	3130	2450	3340	3560	4010	8970	10800	6860	3210	11800	13200	6110
4	3170	2550	3720	3990	3980	10500	10400	7440	3080	12600	13600	5290
5	3420	2730	4000	4890	4040	12100	9550	9170	2980	12900	13700	4830
6	3540	2900	4140	5780	4120	13100	8600	10200	2930	13200	12600	4720
7	3770	3060	4200	6460	4310	13700	7850	10100	2950	13600	10700	4590
8	4210	3110	4250	6390	4190	14300	8200	9890	2910	13300	8560	4270
9	4700	3140	4140	6330	4090	14800	9000	9540	3120	12200	7060	3940
10	5030	3240	3820	6330	3980	14800	9610	8960	3530	11800	5990	3890
11	5090	3500	3600	6090	4070	14600	11000	8450	4560	12300	5430	3750
12	5010	3790	3510	6090	4000	14100	13400	9210	5920	12200	4900	3530
13	4600	3810	3490	6340	3850	13000	15600	9940	6760	11100	4460	3360
14	4050	3600	3510	6100	3740	11800	17100	10400	7070	10300	4180	3180
15	3580	3430	3480	5500	3600	10600	18600	10900	7110	9930	4360	3040
16	3260	3400	3430	5190	3510	9980	20100	11000	6720	9750	4380	2960
17	3060	3420	3380	5130	3450	9720	21800	10200	5620	9590	4130	2910
18	2920	3390	3360	5060	3380	8980	23700	8540	4730	9440	4040	2820
19	2810	3320	3330	5110	3350	7780	25200	7740	4870	9850	4020	2750
20	2720	3200	3290	5730	3340	7330	26000	7540	6180	10700	4200	2780
21	2640	3140	3300	5730	3520	7030	26200	7340	7450	11800	4420	2830
22	2580	3260	3460	5450	3660	6490	26100	6970	8970	12500	4270	2830
23	2520	3420	3530	5170	4350	6620	25500	6510	10400	13200	4120	2790
24	2470	3520	3360	4700	6530	7540	23700	5510	11900	14100	3950	2950
25	2420	3480	3210	4360	8340	9250	20400	4910	13400	15500	4360	4310
26	2390	3340	3170	4130	9520	10900	17000	4820	14500	16900	4450	5730
27	2380	3230	3160	3940	10400	12100	15000	4440	15200	17500	4160	5760
28	2410	3160	3140	3800	10700	13200	13700	4100	15500	17600	4030	5410
29	2430	3140	3130	3850	—	13900	11900	4100	15400	17300	4460	5650
30	2470	3130	3160	4240	—	14300	9690	4130	15200	16200	4840	6430
31	2450	—	3500	4450	—	13700	—	3870	—	14800	4930	—
TOTAL	101880	95740	108350	157100	134490	343440	479200	238260	219110	400060	205000	125760
MEAN	3286	3191	3495	5068	4803	11080	15970	7686	7304	12910	6613	4193
MAX	5090	3810	4250	6460	10700	14800	26200	11000	15500	17600	13900	6500
MIN	2380	2440	3120	3540	3340	6490	7850	3870	2910	9440	3950	2750
CFSM	.28	.28	.30	.44	.41	.96	1.38	66	63	1.11	57	.36
IN.	.33	.31	.35	.50	.43	1.10	1.54	.76	.70	1.28	.66	.40

CAL YR 1988	TOTAL	2002360	MEAN	5471	MAX	17400	MIN	1650	CFSM	7	IN	6.42
WTR YR 1989	TOTAL	2608410	MEAN	7146	MAX	26200	MIN	2380	CFSM	.62	IN	8.36

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.–Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.–November 1970 to current year.
PERIOD OF DAILY RECORD.–
CHLORIDE: May 1970 to August 1975.
SPECIFIC CONDUCTANCE: June 1971 to September 1976.
pH: October 1971 to September 1976.
WATER TEMPERATURES: December 1970 to September 1976.
DISSOLVED OXYGEN: May 1971 to September 1976.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD
CHLORIDE: Maximum recorded, 19 mg/L Oct. 10, 1974; minimum recorded, 0.0 mg/L Dec. 26-28, 1972, June 2, 3, 1973.
SPECIFIC CONDUCTANCE: Maximum recorded, 157 microsiemens Oct. 9, 1972; minimum recorded, 24 microsiemens Feb. 28, March 1, 1974.
pH: Maximum recorded, 8.0 units May 14, 1972; minimum recorded, 5.1 units Dec. 28, 1971.
WATER TEMPERATURES: Maximum, 32.0°C July 24, Aug. 5, 1972; minimum, 5.5°C Jan. 11, 19, 20, 1976.
DISSOLVED OXYGEN: Maximum recorded, 11.7 mg/L Jan. 17, 18, 1973; minimum recorded, 4.7 mg/L Aug. 21, 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
12...	0640	5060	117	115	7.10	7.40	19.0	11.0	8.0	86
NOV										
16...	0730	3400	150	166	–	7.80	17.0	15.0	8.5	88
DEC										
08...	0930	4260	137	135	7.20	7.50	10.5	12.0	9.3	83
JAN										
11...	0740	6160	113	109	7.00	7.30	13.0	8.5	9.0	84
FEB										
08...	0840	4210	138	132	7.63	7.60	16.0	8.0	7.8	78
MAR										
09...	1015	14800	88	66	7.03	6.80	11.0	5.5	9.1	82
APR										
12...	0625	12900	82	81	7.58	7.10	14.0	4.5	7.8	75
MAY										
11...	0620	8360	98	96	7.55	7.40	20.0	14.5	7.3	81
JUN										
14...	0615	7010	93	93	7.41	7.60	25.0	30.5	6.3	76
JUL										
12...	0620	12400	85	82	7.23	7.20	28.0	25.5	5.9	75
AUG										
22...	0600	4290	123	124	7.30	7.30	28.0	24.0	6.3	80
SEP										
26...	0725	5630	103	104	–	7.40	22.0	21.0	7.1	82

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 12...	60	21	0.9	20	23	0.340	0.030	0.170	5.9
NOV 16...	25	10	0.9	170	34	0.610	<0.030	0.160	4.6
DEC 08...	15	12	0.9	140	33	0.520	<0.030	0.130	4.0
JAN 11...	--	28	1.0	130	23	--	<0.030	0.120	5.9
FEB 08...	30	14	0.6	<20	31	0.580	0.030	0.130	3.8
MAR 09...	80	37	2.7	170	16	0.330	<0.030	0.130	6.6
APR 12...	70	42	1.6	790	18	0.300	0.040	--	7.6
MAY 11...	70	27	1.3	50	27	0.380	<0.030	0.120	6.1
JUN 14...	90	50	1.2	<20	25	0.330	<0.030	0.150	8.6
JUL 12...	120	26	1.6	40	21	0.250	<0.030	0.110	7.1
AUG 22...	60	17	1.2	70	33	0.520	0.080	0.090	6.0
SEP 26...	35	48	0.7	170	27	0.410	<0.030	0.180	--

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.

LOCATION.--Lat 32°04'42", long 82°10'39", Tattnall County, Hydrologic Unit 03070107, on downstream side of pier near center span of bridge on State Highway 56, 0.5 mi downstream from Brazells Creek, 1.5 mi downstream from Rocky Creek, 3.5 mi west of Reidsville, 6 mi downstream from Pendleton Creek, and 14 mi upstream from mouth.

DRAINAGE AREA.--1,110 mi^2, approximately.

PERIOD OF RECORD.--April 1903 to December 1907, April 1937 to current year. Monthly discharge only for April to June 1903, April to May 1937, published in WSP 1304.

REVISED RECORDS.--WSP 822: Drainage area. WSP 892: 1938(M). WSP 1504: 1905. WDR GA-84-1: 1983.

GAGE.--Water-stage recorder. Datum of gage is 73.8 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Feb. 15, 1941, nonrecording gage at same site, at different datum June 13, 1903, to Dec. 31, 1907, and at same datum May 25, 1937, to Feb. 15, 1941.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--56 years (water years, 1904-07, 1938-89), 979 ft^3/s, 11.98 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,400 ft^3/s, Mar. 6, 1966, gage height, 23.34 ft; minimum daily discharge, 19 ft^3/s, Sept. 12, 13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 28.4 ft in January 1925, from information furnished by Georgia Department of Transportation; discharge, 47,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 15	2300	*5,070	*13.87	No other peak greater than base discharge.			

Minimum daily discharge, 72 ft^3/s, Nov. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	315	77	198	140	190	842	1320	619	126	764	1540	1030
2	298	75	186	165	190	858	1070	596	114	548	1190	1190
3	365	72	174	214	193	984	842	587	103	434	925	1190
4	553	100	162	260	190	1250	693	648	94	434	803	967
5	616	232	151	298	181	1560	592	774	87	472	694	861
6	624	397	141	318	180	1830	520	952	87	459	584	985
7	676	443	133	312	183	2130	459	1150	90	460	497	1270
8	795	392	127	302	185	2410	410	1210	87	558	434	1640
9	861	331	124	295	189	2490	382	1050	107	557	404	1650
10	762	289	120	275	190	2420	471	861	162	573	362	1200
11	593	260	125	255	194	2270	967	964	344	505	316	858
12	457	225	147	238	190	2030	1630	1310	543	432	278	685
13	352	195	171	228	178	1750	2280	1540	796	382	241	605
14	287	173	183	222	167	1490	3440	1650	1020	333	217	574
15	243	158	185	220	158	1280	4810	1640	1100	310	199	522
16	211	145	186	241	150	1120	4970	1330	1010	297	192	481
17	185	134	199	253	145	1010	4440	1040	780	300	189	685
18	165	130	220	255	139	925	3630	843	560	322	202	542
19	151	138	229	254	138	855	3000	686	503	355	381	359
20	136	133	226	240	134	787	2650	550	546	391	577	271
21	128	124	217	228	138	729	2440	448	726	459	567	233
22	123	119	203	218	197	693	2250	367	868	624	513	369
23	115	126	191	207	369	712	2040	312	1020	947	488	722
24	110	166	180	197	519	911	1830	273	1110	1310	438	848
25	102	293	172	186	639	1210	1600	243	1260	1490	382	751
26	98	354	164	178	745	1370	1330	222	1430	1460	329	926
27	91	322	157	170	819	1440	1110	199	1710	1420	286	1310
28	91	272	152	161	837	1510	927	179	1850	1460	290	1720
29	91	232	147	156	—	1550	773	161	1580	1620	493	1820
30	86	211	142	154	—	1550	668	147	1110	1860	843	1620
31	79	—	136	177	—	1490	—	138	—	1860	991	—
TOTAL	9759	6318	5248	7017	7727	43456	53544	22689	20923	23396	15845	27884
MEAN	315	211	169	226	276	1402	1785	732	697	755	511	929
MAX	861	443	229	318	837	2490	4970	1650	1850	1860	1540	1820
MIN	79	72	120	140	134	693	382	138	87	297	189	233
CFSM	.28	.19	.15	.20	.25	1.26	1.61	.66	.63	.68	.46	.84
IN.	.33	.21	.18	.24	.26	1.46	1.79	.76	.70	.78	.53	.93
CAL YR 1988	TOTAL	175004	MEAN	478	MAX	3440	MIN	31	CFSM	.43	IN	5.86
WTR YR 1989	TOTAL	243806	MEAN	668	MAX	4970	MIN	72	CFSM	.60	IN	8.17

02225990 ALTAMAHA RIVER NEAR JESUP, GA.

LOCATION.–Lat 31°39'59", long 81°50'19", Wayne-Long County line, Hydrologic Unit 03070106, at bridge on U.S. Highways 25, 82, and 301, 5 mi northeast of Jesup.

DRAINAGE AREA.–13,600 mi^2, approximately.

PERIOD OF RECORD.–August 1974 to current year.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
27...	1040	2590	152	150	7.50	7.50	18.0	23.0	8.7	91
NOV										
22...	1420	3390	141	136	7.30	7.60	17.0	13.0	8.4	86
DEC										
13...	1235	3820	135	149	6.90	7.50	9.0	9.5	10.9	94
JAN										
10...	1040	6330	107	–	7.50	7.50	13.0	17.5	10.2	95
FEB										
01...	1125	4390	140	142	7.62	7.40	14.5	22.0	9.4	92
MAR										
02...	1230	11100	90	86	7.15	7.00	11.0	11.0	10.2	92
APR										
05...	1035	12600	95	93	7.45	7.10	20.0	22.0	7.1	78
MAY										
04...	1030	8620	94	98	6.99	7.60	22.5	25.0	6.5	74
JUN										
27...	1010	13100	82	86	7.16	7.10	27.5	32.0	6.0	76
JUL										
19...	1110	10300	90	93	7.22	7.10	28.0	30.0	6.2	79
AUG										
30...	1030	4890	110	116	7.35	7.20	29.0	31.5	6.7	87
SEP										
12...	0815	5520	106	108	7.14	7.30	27.0	30.0	6.1	76

02225990 ALTAMAHA RIVER NEAR JESUP, GA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT 27...	30	7.0	0.4	80	40	13	0.180	0.120	0.110	3.3	<0.50
NOV 22...	45	8.0	2.4	<20	39	2	0.500	0.110	0.180	6.6	<5.0
DEC 13...	40	9.0	1.2	<20	32	8	0.710	0.090	0.210	3.6	<0.50
JAN 10...	90	36	1.6	20	24	28	0.400	<0.030	0.120	7.2	<0.50
FEB 01...	10	2.0	0.7	<20	32	14	0.610	<0.030	0.160	3.4	<0.50
MAR 02...	60	37	1.1	70	17	26	0.490	0.140	0.140	7.2	0.70
APR 05...	50	24	1.0	<20	21	21	0.270	0.130	0.030	7.5	0.80
MAY 04...	90	23	0.6	20	30	21	0.370	<0.030	0.040	7.5	--
JUN 27...	90	28	0.9	70	18	21	0.220	<0.030	0.260	13	0.90
JUL 19...	75	20	0.6	50	26	16	0.270	<0.030	0.090	8.5	0.80
AUG 30...	50	14	1.8	20	31	16	0.340	0.040	0.060	7.1	<0.50
SEP 12...	110	12	1.5	70	28	10	0.370	0.040	0.180	9.1	1.0

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.

LOCATION.--Lat 31°39'16", long 81°49'41", Wayne-Long County line, Hydrologic Unit 03070106, on right bank 60 ft downstream from Seaboard Coast Line Railroad bridge at Doctortown, 4.5 mi northeast of Jesup, and at mile 64.5.

DRAINAGE AREA.--13,600 mi^2, approximately.

PERIOD OF RECORD.--October 1931 to current year. Gage-heights collected at same site since 1925 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.48 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 5, 1934, nonrecording gage, and Sept. 5, 1934 to Sept. 30, 1975, water-stage recorder at same site at datum 4.0 ft higher.

REMARKS.--Estimated daily discharges: Sept. 27-28. Records good. Records of chemical analyses for the water years 1967-77 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--58 years, 13,470 ft^3/s, 13.45 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 178,000 ft^3/s, Apr. 18, 1936, gage height, 16.03 ft, present datum; minimum discharge, 1,430 ft^3/s, Oct. 27, 28, Nov. 1, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1800, 18.6 ft, present datum, Jan. 23, 1925, discharge, 300,000 ft^3/s, from rating curve extended above 180,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30,000 ft3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 23	0800	*31,900	*11.14	No other peak greater than base discharge.			

Minimum discharge, 2,550 ft^3/s, Nov. 3-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4990	2600	3460	3480	4400	10700	15600	14700	4290	17700	19300	6200
2	4520	2570	3410	3690	4480	11000	15700	12300	4010	17700	18800	7000
3	4320	2560	3380	3700	4380	10600	14800	9990	3760	16800	17900	7950
4	4470	2620	3470	3680	4250	10200	13500	8580	3550	15500	16800	8440
5	4870	2750	3730	3870	4160	10800	12500	8130	3380	14400	15800	7730
6	5110	3000	4020	4490	4140	11900	11600	8810	3270	14000	15300	6800
7	5100	3360	4220	5270	4170	13100	10400	9880	3220	14100	14800	6490
8	5060	3660	4320	5960	4280	14300	9120	10600	3180	14200	14000	6390
9	5220	3790	4380	6290	4280	15400	8610	10900	3210	14300	13000	6240
10	5560	3750	4350	6340	4180	16400	8910	11000	3260	14300	11100	6020
11	5870	3700	4180	6350	4080	17200	9870	10600	3500	13600	9160	5800
12	5960	3770	3970	6250	4080	17900	11000	9810	4150	13000	7680	5420
13	5810	3970	3820	6130	4070	18100	12400	9670	5270	12800	6730	4880
14	5450	4070	3810	6250	3970	17800	14200	10300	6280	12600	6050	4490
15	4930	3960	3830	6230	3850	16800	16300	11000	6900	11900	5560	4340
16	4390	3780	3830	5870	3720	15300	18600	11600	7310	11300	5320	4180
17	3940	3690	3780	5500	3610	13500	21300	12000	7440	10700	5220	3990
18	3620	3650	3730	5330	3520	12200	24600	12100	6900	10400	5030	3890
19	3410	3620	3710	5270	3450	11300	27400	11100	6030	10300	4880	3810
20	3240	3580	3690	5230	3400	9990	29200	9470	5590	10300	4910	3630
21	3090	3500	3640	5510	3400	8800	30500	8540	6120	10700	5020	3540
22	2970	3400	3610	5700	3540	8220	31400	8060	7080	11400	5230	3670
23	2890	3420	3670	5590	3720	7740	31800	7640	8310	12300	5210	3840
24	2840	3560	3750	5360	4200	7540	31700	7160	9590	13200	5020	3970
25	2770	3700	3700	5010	5570	8020	30900	6450	10900	14200	4870	4140
26	2670	3780	3550	4640	7190	9070	29500	5750	12200	15200	4910	4840
27	2600	3810	3450	4370	8520	10600	26800	5380	13200	16400	5080	6000
28	2590	3770	3400	4150	9730	11900	23200	5120	14400	17600	4970	6600
29	2590	3640	3370	3970	---	12900	19900	4710	15600	18700	4730	6740
30	2610	3520	3330	3910	---	14000	17200	4500	17100	19400	4930	6950
31	2620	---	3330	4130	---	15000	---	4450	---	19600	5550	---
TOTAL	126080	104550	115890	157520	126340	388280	578510	280300	209000	438600	272860	163980
MEAN	4067	3485	3738	5081	4512	12530	19280	9042	6967	14150	8802	5466
MAX	5960	4070	4380	6350	9730	18100	31800	14700	17100	19600	19300	8440
MIN	2590	2560	3330	3480	3400	7540	8610	4450	3180	10300	4730	3540
CFSM	.30	.26	.28	.37	.33	.92	1.42	.67	.51	1.04	.65	.40
IN.	.34	.29	.32	.43	.35	1.06	1.58	.77	.57	1.20	.75	.45

CAL YR 1988 TOTAL 2424730 MEAN 6625 MAX 23300 MIN 1660 CFSM .49 IN 6.63

WTR YR 1989 TOTAL 2961910 MEAN 8115 MAX 31800 MIN 2560 CFSM .60 IN 8.10

02226010 ALTAMAHA RIVER NEAR GARDI, GA.

LOCATION.--Lat 31°37'24", long 81°45'55", Wayne-Long County line, Hydrologic Unit 03070106, 6 mi northeast of Gardi, 7 mi downstream from Doctortown, and 9 mi upstream from Penholoway Creek.

DRAINAGE AREA.--13,600 mi^2, approximately.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
27...	1010	2670	240	241	7.30	7.50	19.0	23.0	7.9	84
NOV										
22...	1320	3500	204	198	7.30	7.50	17.5	14.5	7.8	81
DEC										
13...	1120	3970	193	190	6.90	7.50	9.0	14.0	10.1	87
JAN										
10...	1010	6280	--	174	7.50	7.40	14.0	17.5	9.9	--
FEB										
01...	1025	4120	198	197	7.61	7.60	14.5	17.0	8.8	86
MAR										
02...	1200	10800	112	112	7.17	7.20	11.0	11.0	9.8	88
APR										
05...	0940	13600	115	115	7.28	7.00	20.0	19.0	6.7	73
MAY										
04...	1000	10100	100	105	7.00	7.30	22.5	25.0	6.1	70
JUN										
27...	0910	12000	108	103	7.18	7.00	27.0	31.0	5.5	69
JUL										
19...	1040	10300	117	122	7.04	7.20	28.0	30.0	5.7	72
AUG										
30...	1000	4710	165	176	7.26	7.40	29.5	31.5	5.8	76
SEP										
12...	0730	5850	155	157	7.03	7.10	26.5	29.0	5.8	72

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT							
27...	90	8.0	21	1.3	<20	49	10
NOV							
22...	70	6.0	30	2.6	50	41	2
DEC							
13...	40	9.0	22	1.8	130	37	8
JAN							
10...	120	33	22	1.9	20	29	22
FEB							
01...	50	13	30	0.9	<20	37	17
MAR							
02...	70	36	28	1.0	70	21	34
APR							
05...	55	20	30	0.8	70	24	14
MAY							
04...	110	19	25	1.1	20	30	17
JUN							
27...	110	29	30	1.4	50	20	23
JUL							
19...	90	20	35	0.9	<20	29	16
AUG							
30...	50	15	--	1.5	20	35	11
SEP							
12...	120	12	--	2.5	<20	63	9

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT								
27...	0.500	<0.030	--	0.40	0.90	0.130	8.1	1.6
NOV								
22...	0.500	0.210	0.29	0.50	1.0	0.200	8.8	1.4
DEC								
13...	0.710	0.240	0.06	0.30	1.0	0.130	5.4	1.0
JAN								
10...	0.410	<0.030	--	0.30	0.71	0.150	9.2	1.1
FEB								
01...	0.620	<0.030	--	0.40	1.0	0.180	6.1	1.0
MAR								
02...	0.500	<0.030	--	0.60	1.1	0.170	9.4	1.2
APR								
05...	0.260	0.050	0.55	0.60	0.86	0.040	9.0	1.0
MAY								
04...	0.380	0.040	0.56	0.60	0.98	0.080	8.3	0.60
JUN								
27...	0.230	<0.030	--	0.50	0.73	0.140	9.8	1.1
JUL								
19...	0.260	<0.030	--	0.60	0.86	0.110	10	1.4
AUG								
30...	0.310	0.030	--	--	--	0.090	11	1.5
SEP								
12...	0.360	0.030	--	--	--	0.190	14	1.7

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.

LOCATION.–Lat 31°34'00", long 81°50'18", Wayne County, Hydrologic Unit 03070106, on downstream side of bridge on U.S. Highway 341, 4 mi southeast of Jesup, and about 9.5 mi upstream from mouth.

DRAINAGE AREA.–210 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–July 1958 to current year.

GAGE.–Water-stage recorder. Datum of gage is 19.09 ft above National Geodetic Vertical Datum of 1929. Since May 6, 1966, auxiliary water-stage recorder at highway bridge, 2.5 mi downstream.

REMARKS.–No estimated daily discharges. Records good, except those nonzero discharges less than 20 ft^3/s, which are fair, and those periods affected by beaver activity, Oct. 20 to Nov. 30, and Dec. 2 to Jan 11, which are poor.

AVERAGE DISCHARGE.–31 years, 188 ft^3/s, 12.16 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 4,420 ft^3/s, Sept. 30, 1979, gage height, 14.96 ft; no flow at times most years.

EXTREMES FOR CURRENT YEAR.–Peak discharges above base of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 2	0200	*1,460	*11.68	No other peak greater than base discharge.			

Minimum daily discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	4.4	2.4	2.9	.42	5.7	6.5	1.2	.00	175	28	1290
2	15	3.8	2.0	2.5	.54	16	4.4	2.7	.00	246	28	1430
3	69	3.3	1.9	2.2	.52	28	2.6	2.5	.00	243	19	1260
4	166	9.8	1.8	2.2	.38	27	1.5	1.6	.00	238	14	1010
5	166	28	1.6	2.1	.31	28	1.3	.74	.00	208	8.8	769
6	187	29	1.5	2.0	.19	30	1.3	.67	.00	171	5.2	580
7	194	49	1.4	2.6	.16	29	.59	.79	.00	154	2.8	452
8	162	61	1.5	2.9	.17	24	.29	.86	.01	138	2.1	363
9	106	59	1.6	2.9	.12	20	.14	.49	.61	133	45	344
10	61	50	1.5	2.5	.09	16	.92	.24	2.1	113	138	353
11	36	34	3.0	2.1	.09	13	21	.14	1.5	81	183	326
12	23	22	4.4	1.8	.05	11	30	.09	.90	49	196	271
13	15	16	4.4	1.8	.04	8.3	34	.06	.41	28	210	214
14	11	12	4.4	1.9	.02	6.1	41	.05	.39	18	247	186
15	9.4	9.2	4.2	2.8	.00	4.5	46	.04	.83	12	307	178
16	7.6	7.6	5.4	2.0	.02	3.6	60	.02	.46	8.2	317	157
17	6.2	6.4	6.1	1.5	.04	6.5	52	.00	.45	9.7	294	149
18	5.0	5.3	5.6	1.1	.00	9.1	51	.00	.70	6.4	233	128
19	4.4	4.4	5.5	.91	.00	7.2	44	.00	3.0	4.5	159	99
20	4.6	4.2	4.8	1.3	.00	4.7	31	.00	8.0	8.8	95	77
21	4.6	3.6	4.6	.82	.06	3.1	23	.00	18	27	67	64
22	4.5	3.1	4.2	.70	2.1	1.9	16	.00	62	125	106	95
23	4.4	3.2	3.7	1.2	3.5	6.0	11	.00	93	181	117	129
24	4.1	3.0	3.6	1.1	2.5	15	7.6	.00	103	220	182	169
25	3.9	2.8	3.5	.81	1.7	15	5.0	.00	95	253	314	190
26	3.6	2.8	3.0	.62	4.1	15	3.7	.00	96	275	566	203
27	3.5	2.8	3.3	.56	5.7	19	3.0	.00	111	265	802	189
28	3.5	2.6	3.3	.30	5.4	17	2.5	.00	107	199	997	172
29	4.4	2.5	3.4	.19	—	12	2.6	.00	82	110	1300	159
30	7.7	2.6	3.0	.15	—	9.1	2.7	.00	106	64	1330	157
31	5.1	—	2.9	.33	—	9.0	—	.00	—	41	1130	—
TOTAL	1313.5	447.4	103.5	48.79	28.22	419.8	506.64	12.19	892.36	3804.6	9442.9	11163
MEAN	42.4	14.9	3.34	1.57	1.01	13.5	16.9	.39	29.7	123	305	372
MAX	194	61	6.1	2.9	5.7	30	60	2.7	111	275	1330	1430
MIN	3.5	2.5	1.4	.15	.00	1.9	.14	.00	.00	4.5	2.1	64
CFSM	.20	.07	.02	.007	.005	.06	.08	.002	.14	.59	1.45	1.77
IN.	.23	.08	.02	.01	.00	.07	.09	.00	.16	.67	1.67	1.98

CAL YR 1988	TOTAL	28087.30	MEAN	76.7	MAX	1480	MIN	.00	CFSM	.37	IN 4.98
WTR YR 1989	TOTAL	28182.90	MEAN	77.2	MAX	1430	MIN	.00	CFSM	.37	IN 4.99

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
FEB									
08...	1400	0.17	63	64	4.31	4.40	--	4.5	--
JUL									
19...	0930	4.4	77	78	3.81	4.30	25.5	3.6	44

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
FEB										
08..	250	1.6	7	1.4	0.86	6.3	64	1	0.60	<1.0
JUL										
19...	--	1.6	8	1.6	0.91	5.6	58	0.9	0.90	<1.0

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
FEB											
08...	11	<0.10	12	90	--	--	--	<0.100	<0.100	0.020	0.040
JUL											
19...	10	0.10	12	114	--	--	--	<0.100	<0.100	0.140	0.170

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN DISSOLVED (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)
FEB 08...	0.98	0.76	1.0	0.80	--	--	0.020	0.020	30	610	<1	<1
JUL 19...	1.5	0.83	1.6	1.0	--	--	0.030	0.020	65	1300	<1	1

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)
FEB 08...	2	2	2	1300	<5	<5	20	<0.10	<0.1	<1	10
JUL 19...	<1	2	2	2700	7	2	27	<0.10	<0.1	<1	28

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.
(National Stream-Quality Accounting Network station)
(Radiochemical Program station)

LOCATION.–Lat 31°25'37", long 81°36'20", Glynn-McIntosh County line, Hydrologic Unit 03070106, at Altamaha Park, 3 mi northeast of Everett City, and 15 mi northwest of Brunswick.

DRAINAGE AREA.–14,000 mi^2, approximately.

PERIOD OF RECORD.–October 1969 to current year.

PERIOD OF DAILY RECORD.–
SPECIFIC CONDUCTANCE: October 1969 to February 1986.
pH: November 1969 to February 1986.
WATER TEMPERATURE: October 1969 to February 1986.
DISSOLVED OXYGEN: April 1970 to February 1986.

REMARKS.–Laboratory analyses with the analyzing agency codes 80020 and 84213 are provided by the U.S. Geological Survey. Laboratory analyses with the analyzing agency code 81341 are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, Dissolved Oxygen, and Total Alkalinity are by the U.S. Geological Survey. Discharge is obtained from gaging station 02226000, Altamaha River at Doctortown, Ga. Prior to 1978, water-quality samples for the National Stream-Quality Accounting Network, the Radiochemical program, and the National pesticide water-monitoring program were collected at, and published for, the Altamaha River at Doctortown, Ga. (station number 02226000).

EXTREMES FOR PERIOD OF DAILY RECORD.–
SPECIFIC CONDUCTANCE: Maximum recorded, 321 microsiemens Oct. 7, 1981; minimum recorded, 32 microsiemens Apr. 9, 1973.
pH: Maximum recorded, 8.9 units Oct. 21, 22, 1971; minimum recorded, 5.3 units Dec. 12, 1976.
WATER TEMPERATURE: Maximum recorded, 33.5°C July 16-18, 1981; minimum recorded, 3.0°C Jan. 10, 11, 1970, Jan. 20, 21, 1977.
DISSOLVED OXYGEN: Maximum recorded, 12.5 mg/L Jan. 28, 1985; minimum recorded, 2.7 mg/L Oct. 8, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH (STANDARD UNITS)	PH LAB (STANDARD UNITS)
OCT							
27...	0730	80020	2590	247	242	7.53	7.90
27...	0740	81341	2590	247	242	7.53	7.60
NOV							
22...	0910	81341	3400	205	208	7.20	7.50
DEC							
13...	1440	81341	3820	190	185	--	7.50
JAN							
10...	0830	80020	6330	153	160	7.40	7.60
10...	0840	81341	6330	153	171	7.40	7.40
FEB							
01...	0805	81341	4370	199	207	7.62	7.40
MAR							
02...	0900	80020	11100	120	121	7.17	7.00
02...	0910	81341	11100	120	117	7.17	7.00
APR							
05...	0730	81341	12700	110	110	7.30	6.90
MAY							
04...	0730	80020	8730	97	100	7.03	7.60
04...	0740	81341	8730	97	100	7.03	7.30
JUN							
27...	0710	81341	13000	110	108	7.11	7.00
JUL							
19...	0730	80020	10300	111	114	7.30	7.90
19...	0740	81341	10300	111	116	7.30	7.20
AUG							
30...	0700	80020	4820	138	144	7.17	7.20
30...	0710	81341	4820	138	145	7.17	6.90
SEP							
12...	0615	81341	5560	124	128	6.91	7.00

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKALINITY WAT WH TOT FET LAB MG/L AS CACO3	ALKALINITY WAT.DIS FET LAB CACO3 (MG/L)
OCT									
27...	80020	19.0	17.0	7.5	80	71	58	--	52
27...	81341	19.0	17.0	7.5	80	--	--	48	--
NOV									
22...	81341	18.0	12.5	7.7	81	--	--	42	--
DEC									
13...	81341	10.0	12.5	9.6	85	--	--	37	--
JAN									
10...	80020	14.0	13.5	9.1	87	39	32	--	30
10...	81341	14.0	13.5	9.1	87	--	--	32	--
FEB									
01...	81341	15.0	12.0	8.4	83	--	--	38	--
MAR									
02...	80020	11.5	10.5	9.5	86	20	16	--	22
02...	81341	11.5	10.5	9.5	86	--	--	20	--
APR									
05...	81341	20.0	18.0	6.1	67	--	--	22	--
MAY									
04...	80020	21.5	20.5	5.7	64	34	28	--	28
04...	81341	21.5	20.5	5.7	64	--	--	28	--
JUN									
27...	81341	27.0	25.5	5.4	68	--	--	21	--
JUL									
19...	80020	27.0	24.5	5.4	67	32	26	--	30
19...	81341	27.0	24.5	5.4	67	--	--	57	--
AUG									
30...	80020	28.0	26.5	5.4	69	33	27	--	30
30...	81341	28.0	26.5	5.4	69	--	--	27	--
SEP									
12...	81341	24.0	17.0	5.8	69	--	--	25	--

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.–Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)
OCT								
27...	80020	–	8.1	–	–	36	25	48
27...	81341	120	10	1.3	30	–	–	–
NOV								
22...	81341	75	6.0	2.6	110	–	–	–
DEC								
13...	81341	60	9.0	2.2	<20	–	–	–
JAN								
10...	80020	–	17	–	–	150	190	31
10...	81341	80	18	1.7	120	–	–	–
FEB								
01...	81341	70	11	1.0	50	–	–	–
MAR								
02...	80020	–	25	–	–	170	200	25
02...	81341	80	33	1.5	170	–	–	–
APR								
05...	81341	55	17	0.9	80	–	–	–
MAY								
04...	80020	–	16	–	–	29	87	29
04...	81341	120	12	1.2	50	–	–	–
JUN								
27...	81341	110	21	0.8	50	–	–	–
JUL								
19...	80020	–	14	–	–	57	170	29
19...	81341	110	18	1.5	90	–	–	–
AUG								
30...	80020	–	8.3	–	–	110	83	32
30...	81341	150	13	2.7	20	–	–	–
SEP								
12...	81341	140	11	1.5	70	–	–	–

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)
OCT							
27...	80020	15	2.5	31	57	2	2.8
JAN							
10...	80020	9.3	1.9	19	55	1	2.7
MAR							
02...	80020	7.4	1.7	13	50	1	2.4
MAY							
04...	80020	8.4	2.0	8.0	35	0.6	2.1
JUL							
19...	80020	8.8	1.8	11	43	0.9	2.3
AUG							
30...	80020	9.6	1.9	16	50	1	2.0

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.–Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
OCT									
27...	80020	152	152	1060	0.21	32	18	0.10	13
JAN									
10...	80020	109	104	1860	0.15	25	13	0.10	11
MAR									
02...	80020	84	77	2520	0.11	19	11	0.10	11
MAY									
04...	80020	73	67	1720	0.10	10	6.8	0.10	11
JUL									
19...	80020	94	72	2610	0.13	10	10	0.10	11
AUG									
30...	80020	105	86	1370	0.14	14	12	0.10	12

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DISSOLVED (MG/L AS P)	PHOSPHOROUS ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
27...	80020	<0.010	–	0.480	<0.010	<0.010	–	0.40	0.070	0.050	0.030	--
27...	81341	–	0.480	–	0.040	–	–	–	0.130	–	–	8.8
NOV												
22...	81341	–	0.500	–	0.070	–	–	–	0.180	–	–	8.8
DEC												
13...	81341	–	0.690	–	0.610	–	–	–	0.100	–	–	5.0
JAN												
10...	80020	<0.010	–	0.460	0.040	0.040	0.46	0.50	0.110	0.050	0.030	--
10...	81341	–	0.540	–	0.050	–	–	–	0.120	–	–	8.3
FEB												
01...	81341	–	0.610	–	<0.030	–	–	–	0.180	–	–	6.9
MAR												
02...	80020	0.010	–	0.360	0.050	<0.010	2.0	2.1	0.080	0.040	0.040	--
02...	81341	–	0.570	–	<0.030	–	–	–	0.150	–	–	8.2
APR												
05...	81341	–	0.180	–	0.030	–	–	–	0.070	–	–	10
MAY												
04...	80020	0.020	–	0.260	0.060	0.070	0.34	0.40	0.060	0.030	0.030	--
04...	81341	–	0.280	–	0.050	–	–	–	0.070	–	–	9.2
JUN												
27...	81341	–	0.230	–	<0.030	–	–	–	0.140	–	–	11
JUL												
19...	80020	0.010	–	0.230	0.030	0.060	0.37	0.40	0.170	0.050	0.050	--
19...	81341	–	0.220	–	0.030	–	–	–	0.110	–	–	11
AUG												
30...	80020	0.010	–	0.230	0.050	0.040	0.45	0.50	0.060	0.050	0.030	--
30...	81341	–	0.260	–	0.040	–	–	–	0.060	–	–	18
SEP												
12...	81341	–	0.250	–	<0.030	–	–	–	0.210	–	–	2.3

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT 27...	80020	40	<1	35	0.9	<1	<1	<3	2	380	<5
JAN 10...	80020	50	<1	26	<0.5	1	5	3	2	270	<5
MAY 04...	80020	60	<1	42	<0.5	<1	<1	<3	2	620	<5
AUG 30...	80020	160	<1	33	<0.5	<1	<1	<3	5	770	1

DATE	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 27...	80020	<4	52	1.1	<10	3	<1	<1.0	63	<6	15
JAN 10...	80020	5	20	<0.1	<10	<1	<1	<1.0	42	<6	12
MAY 04...	80020	<4	38	<0.1	<10	<1	<1	<1.0	42	<6	7
AUG 30...	80020	<4	77	<0.1	<10	3	1	<1.0	47	<6	9

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 27...	0735	84213	2590	19.0	8	56	94
JAN 10...	0835	84213	6330	14.0	30	513	93
MAR 02...	0905	84213	11100	11.5	32	959	92
JUL 19...	0735	84213	10300	27.0	14	389	94
AUG 30...	0705	84213	4820	28.0	17	221	96

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
OCT 27...	0730	80020	2590	<0.4	<0.4	4.1	<0.4	3.2	<0.4	0.04	0.04
MAY 04...	0730	80020	8730	0.7	0.9	4.3	0.7	3.4	0.6	0.13	0.04

02210000 LLOYD SHOALS RESERVOIR NEAR JACKSON, GA.

LOCATION.--Lat 33°19'13", long 83°50'20", Butts County, Hydrologic Unit 03070103, on Ocmulgee River, 1 mi upstream from bridge on State Highway 16, and 7 mi east of Jackson.

DRAINAGE AREA.--1,400 mi^2.

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company.)

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 528.0 and 525.0 ft) is equipped with flashboards 308.5 ft wide by 2 ft high and 420 ft wide by 5 ft high. Dam completed in 1910. Total capacity at elevation 530.0 ft, top of flashboards, is 107,000 acre-ft, of which 78,000 acre-ft is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	528.3	98800	-	-
Oct. 31................	528.3	98800	0	0
Nov. 30................	526.8	92200	-6600	-111
Dec. 31................	522.0	74000	-18200	-296
CAL YR 1988	-	-	-2100	-3
Jan. 31................	522.0	74000	0	0
Feb. 28................	523.5	79200	+5200	+94
Mar. 31................	527.0	93000	+13800	+224
Apr. 30................	528.4	99300	+6300	+106
May 31................	528.1	98000	-1300	-21
June 30................	528.3	98800	0	0
July 31................	526.7	91800	-7000	-114
Aug. 31................	528.7	101000	+9200	+150
Sept. 30................	530.0	107000	+6000	+101
WTR YR 1989	-	-	+8200	+11

02220450 LAKE OCONEE NEAR EATONTON, GA.

LOCATION.--Lat 33°21'00", long 83°09'28", Putnam County, Hydrologic Unit 03070101, on Oconee River, 1.5 mi upstream from bridge on State Highway 16, and 13.3 mi east of Eatonton.

DRAINAGE AREA.--1,820 mi^2.

PERIOD OF RECORD.--. January 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 435.6 ft) is equipped with five radial gates 42 ft wide by 44 ft high. Storage began in January 1979; water in reservoir first reached minimum pool elevation in July 1979. Capacity curve and monthend elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	433.1	325800	-	-
Oct. 31................	433.5	333000	+7200	+117
Nov. 30................	435.0	360000	+27000	+454
Dec. 31................	435.2	363600	+3600	+59
CAL YR 1988	-	-	+19800	+27
Jan. 31................	435.3	365400	+1800	+29
Feb. 28................	435.5	369000	+3600	+65
Mar. 31................	435.3	365400	-3600	-59
Apr. 30................	435.5	369000	+3600	+60
May 31................	435.2	363600	-5400	-88
June 30................	435.3	365400	+1800	+30
July 31................	435.4	367200	+1800	+29
Aug. 31................	435.3	365400	-1800	-29
Sept. 30................	435.5	369000	+3600	+60
WTR YR 1989	-	-	+43200	+60

02222500 SINCLAIR RESERVOIR NEAR MILLEDGEVILLE, GA.

LOCATION.--Lat 33°08'27", long 83°12'08", Baldwin County, Hydrologic Unit 03070101, on Oconee River, 1.5 mi upstream from Georgia Railroad bridge, and 4 mi north of Milledgeville.

DRAINAGE AREA.--2,900 mi^2.

PERIOD OF RECORD.--October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 319 ft) is equipped with 24 gates 30 ft wide by 21 ft high. Storage began in 1952; water in reservoir first reached minimum pool elevation in 1953. Total capacity at elevation 340.0 ft, top of gates, is 334,000 acre-ft, of which 214,600 acre-ft is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30................	338.2	307000	-	-
Oct. 31................	338.2	307000	0	0
Nov. 30................	338.2	307000	0	0
Dec. 31................	339.0	319000	+12000	+195
CAL YR 1988	-	-	+7500	+10
Jan. 31................	338.6	313000	-6000	-98
Feb. 28................	338.5	311500	-1500	-27
Mar. 31................	338.5	311500	0	0
Apr. 30................	338.3	308500	-3000	-50
May 31................	338.4	310000	+1500	+24
June 30................	338.3	308500	-1500	-25
July 31................	338.5	311500	+3000	+49
Aug. 31................	338.3	308500	-3000	-49
Sept. 30................	339.9	332500	+24000	+403
WTR YR 1989	-	-	+25500	+35

*Elevation at 0700 on day following that shown in first column.

02226177 TURTLE RIVER AT GEORGIA HIGHWAY 303 AT BRUNSWICK, GA.

LOCATION.--Lat 31°11'13", long 81°31'55", Glynn County, Hydrologic Unit 03070203, at downstream side of bridge on State Highway 303, and 1.7 mi southwest of the junction of U.S. Highway 341 and State 303, 3.5 mi northwest of Brunswick Post Office, and 1.6 mi west of Arco.

PERIOD OF RECORD.--May 1988 to current year.

GAGE-HEIGHT RECORDS

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR CURRENT PERIOD.--May 1988 to September 1988. Maximum elevation recorded, 6.28 ft, Sept. 27; minimum elevation recorded, -5.72 ft, Aug. 29.

Water Year 1989: Maximum elevation recorded, 6.50 ft, March 9; minimum elevation recorded, -7.20 ft, April 7.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			—	—	5.26	-3.90	5.82	-4.16	—	—	5.06	-3.44
2			—	—	5.23	-4.11	5.57	-3.90	—	—	4.82	-3.27
3			—	—	5.84	-4.28	5.44	-3.91	—	—	4.49	-2.87
4			—	—	5.85	-2.40	5.25	-3.79	—	—	4.07	-2.74
5			—	—	5.68	-2.99	5.09	-3.50	—	—	3.48	-3.39
6			—	—	4.96	-3.66	4.94	-2.58	—	—	3.87	-2.76
7			—	—	4.35	-4.08	4.84	-3.02	—	—	5.42	-1.78
8			—	—	4.70	-4.03	4.52	-3.76	—	—	4.93	-2.67
9			—	—	4.24	-4.51	4.32	-4.17	—	—	4.58	-2.96
10			—	—	4.99	-4.62	4.40	-4.03	—	—	4.50	-3.43
11			—	—	5.38	-3.24	4.25	-4.14	4.52	-3.69	4.65	-3.26
12			—	—	5.35	-3.74	—	-4.34	4.57	-3.55	4.52	-3.13
13			—	—	5.15	-3.78	—	—	4.59	-3.39	4.21	-3.32
14			—	—	4.88	-3.85	—	—	4.08	-3.62	4.08	-3.22
15			—	—	4.74	-3.59	—	—	3.73	-3.69	4.31	-3.21
16			—	—	4.67	-3.34	—	—	3.40	-3.60	4.81	-2.23
17			—	—	4.36	-3.27	—	—	3.55	-3.59	4.36	-2.22
18			—	—	4.03	-3.28	—	—	3.45	-3.40	4.04	-2.43
19			—	—	4.00	-3.23	—	—	3.40	-3.24	4.33	-1.92
20			—	—	3.85	-2.76	—	—	3.28	-3.03	4.63	-2.29
21			—	—	3.72	-2.48	—	—	3.79	-3.20	4.73	-3.17
22			—	—	3.70	-2.48	—	—	4.40	-3.23	5.55	-3.21
23			—	—	3.70	-2.52	—	—	4.96	-2.93	5.79	-3.86
24			—	—	3.88	-2.73	—	—	5.07	-3.57	5.65	-4.64
25			—	—	4.69	-2.23	—	—	5.23	-4.23	5.75	-5.26
26			4.63	-1.25	4.85	-2.57	—	—	5.46	-5.05	5.83	-5.03
27			4.67	-2.42	5.43	-3.71	—	—	5.68	-5.63	6.28	-4.18
28			4.64	-3.08	5.59	-3.02	—	—	5.25	-5.06	5.91	-4.16
29			4.78	-3.76	5.48	-3.73	—	—	4.88	-5.72	6.09	-3.20
30			5.20	-3.56	5.31	-4.60	—	—	5.01	-5.40	5.41	-2.77
31			5.30	-3.79	—	—	—	—	5.16	-4.47	—	—
MONTH			—	—	5.85	-4.62	—	—	—	—	6.28	-5.26

02226177 TURTLE RIVER AT GEORGIA HIGHWAY 303 AT BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.11	-2.27	4.47	-1.56	3.07	-2.38	3.29	-2.60	3.15	-3.30	3.12	-1.85
2	4.52	-2.01	3.69	-2.34	2.93	-2.85	3.29	-2.31	3.26	-3.93	3.85	-1.11
3	4.21	-1.95	3.71	-1.94	2.85	-3.24	3.91	-3.86	3.73	-4.43	4.51	-2.86
4	4.24	-1.98	4.06	-2.18	2.93	-2.98	3.74	-4.02	4.03	-4.61	4.32	-3.56
5	4.55	-1.46	4.14	-3.11	4.29	-2.76	4.50	-3.96	5.17	-4.58	4.72	-4.13
6	4.75	-1.33	3.75	-3.60	4.52	-3.33	4.98	-4.10	5.41	-4.77	4.99	-4.95
7	4.89	-1.43	3.65	-3.88	4.44	-3.55	4.64	-4.56	5.28	-5.44	5.68	-5.64
8	5.05	-1.55	3.92	-4.02	4.43	-4.01	4.99	-4.57	4.77	-5.61	5.92	-4.17
9	5.03	-2.16	4.19	-4.08	4.68	-4.23	4.98	-4.88	4.87	-5.00	6.50	-4.30
10	5.07	-2.49	4.65	-3.91	5.08	-4.13	5.40	-4.01	4.85	-4.88	6.40	-3.74
11	4.76	-2.94	4.35	-4.13	5.07	-4.00	5.32	-4.03	4.66	-4.52	6.41	-3.78
12	4.49	-3.65	5.03	-2.78	5.79	-2.86	4.90	-4.50	3.88	-4.06	5.85	-3.75
13	5.00	-3.23	4.79	-3.33	5.07	-4.05	4.41	-4.70	4.00	-3.63	4.90	-2.86
14	4.68	-2.72	4.44	-3.19	4.62	-3.78	4.83	-3.09	3.61	-3.65	4.42	-2.60
15	4.50	-2.45	4.45	-2.88	4.13	-3.77	4.42	-3.82	3.39	-3.82	3.82	-3.21
16	4.35	-2.41	4.61	-2.98	4.17	-3.47	3.78	-4.19	3.67	-3.97	3.47	-3.25
17	4.24	-2.11	3.99	-3.81	4.48	-4.18	4.29	-3.55	4.51	-3.92	3.91	-2.95
18	4.46	-2.10	4.46	-3.17	4.19	-4.11	4.41	-4.41	5.00	-2.21	3.93	-3.34
19	4.25	-2.60	5.04	-3.87	4.49	-4.49	4.15	-4.48	4.89	-2.93	4.25	-3.39
20	5.61	-2.31	5.16	-4.87	4.59	-4.38	4.42	-4.71	4.98	-3.27	4.71	-3.20
21	5.10	-3.92	4.81	-5.06	4.70	-4.63	5.00	-4.66	4.59	-3.89	4.09	-4.18
22	5.04	-3.87	5.56	-4.34	4.85	-4.86	5.51	-2.86	4.06	-4.13	5.03	-4.27
23	5.62	-4.37	5.88	-4.13	5.34	-4.31	5.13	-2.88	3.02	-4.98	5.06	-2.30
24	5.78	-4.53	5.72	-3.85	4.87	-4.29	5.01	-3.45	3.38	-4.91	4.33	-3.50
25	5.84	-5.28	5.23	-3.86	4.39	-4.38	4.27	-3.67	3.69	-3.34	4.16	-3.58
26	5.66	-4.70	5.08	-3.81	4.55	-3.63	3.69	-3.56	3.68	-3.46	3.94	-3.27
27	5.70	-4.34	4.47	-3.48	4.56	-3.18	3.34	-3.32	2.67	-2.90	3.72	-3.10
28	5.28	-3.69	3.11	-3.43	3.78	-3.95	3.56	-2.47	2.99	-3.33	3.59	-2.92
29	4.85	-3.21	4.04	-2.73	3.29	-2.94	3.38	-2.45	—	—	3.41	-2.60
30	5.06	-1.83	3.65	-2.25	3.56	-2.05	3.31	-2.45	—	—	3.37	-3.00
31	5.00	-1.09	—	—	3.45	-2.34	2.83	-2.51	—	—	3.07	-3.90
MONTH	5.84	-5.28	5.88	-5.06	5.79	-4.86	5.51	-4.88	5.41	-5.61	6.50	-5.64

02226177 TURTLE RIVER AT GEORGIA HIGHWAY 303 AT BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.49	-3.70	4.65	-4.25	5.26	-4.84	6.00	-3.42	4.53	-4.67	4.57	-3.35
2	3.93	-3.93	4.72	-5.09	5.30	-5.22	5.80	-3.92	4.80	-4.48	4.17	-3.37
3	4.41	-4.77	5.50	-5.03	5.45	-5.15	5.31	-4.15	4.93	-3.96	4.09	-3.80
4	5.00	-5.45	6.12	-4.78	5.43	-4.96	5.13	-4.02	4.39	-3.47	4.54	-2.21
5	5.30	-5.98	6.00	-5.11	4.78	-4.71	4.67	-3.74	3.72	-3.83	4.10	-2.66
6	5.16	-6.27	5.69	-5.19	4.91	-4.87	3.83	-4.16	3.60	-3.74	4.23	-1.80
7	4.69	-7.20	5.35	-5.10	4.53	-4.19	3.61	-4.12	3.69	-3.05	4.46	-1.21
8	4.66	-5.62	5.21	-3.96	4.28	-3.93	3.39	-4.07	3.93	-2.56	4.66	-0.79
9	4.84	-5.05	4.99	-3.79	4.08	-4.02	3.33	-3.48	4.25	-1.54	4.54	-1.33
10	4.82	-3.86	4.31	-3.87	3.09	-3.93	3.30	-2.97	4.22	-1.61	4.73	-1.80
11	4.60	-2.74	3.41	-2.99	3.13	-3.30	3.29	-2.98	4.00	-1.69	4.69	-2.39
12	4.50	-1.96	4.00	-2.72	3.66	-2.83	3.39	-2.81	4.26	-2.14	5.15	-2.81
13	4.35	-1.98	3.62	-2.78	3.44	-3.17	3.41	-3.19	4.36	-2.56	5.64	-3.18
14	3.72	-2.40	3.68	-2.82	3.64	-3.68	3.55	-3.41	4.91	-2.92	5.60	-4.01
15	3.90	-2.66	3.78	-2.93	3.72	-3.71	4.17	-3.04	5.24	-3.86	5.62	-4.53
16	3.98	-3.09	3.96	-3.08	3.92	-3.88	4.33	-3.54	5.26	-4.24	5.37	-5.01
17	3.75	-3.30	4.25	-3.13	4.30	-3.80	4.49	-4.06	5.53	-4.71	5.42	-5.08
18	4.05	-3.46	4.58	-3.19	4.40	-3.81	5.11	-4.02	5.20	-4.67	5.73	-4.77
19	4.12	-3.67	4.77	-3.20	4.70	-3.73	5.17	-4.20	5.15	-4.86	5.56	-3.49
20	4.90	-3.82	4.81	-3.19	4.78	-3.69	5.14	-4.53	5.28	-4.61	5.16	-3.45
21	5.27	-2.97	4.10	-3.68	4.67	-3.98	5.05	-4.33	5.13	-4.21	5.25	-2.52
22	4.93	-3.02	4.59	-3.94	4.54	-4.19	4.73	-4.27	4.81	-4.26	4.45	-3.36
23	4.17	-3.78	3.92	-3.67	4.41	-4.21	4.69	-4.64	4.46	-4.16	4.34	-3.21
24	4.23	-3.71	4.16	-3.98	4.44	-4.17	4.66	-4.40	4.33	-3.93	5.14	-1.30
25	3.79	-3.39	4.03	-3.62	4.35	-4.20	4.72	-4.11	4.67	-3.71	5.14	-2.15
26	3.76	-3.37	4.20	-3.62	4.66	-3.70	4.93	-3.36	5.05	-2.53	4.55	-3.04
27	3.87	-2.99	4.01	-3.98	4.68	-4.06	4.70	-3.63	5.03	-3.09	5.87	-2.73
28	3.91	-2.91	4.75	-3.47	4.99	-4.26	4.42	-4.36	4.96	-3.22	5.43	-1.97
29	4.09	-2.89	5.12	-2.87	5.32	-4.26	4.78	-4.23	5.11	-3.57	5.42	-3.04
30	4.25	-3.52	5.16	-3.92	6.10	-3.49	5.09	-3.99	4.86	-3.46	4.63	-2.91
31	—	—	5.16	-4.49	—	—	4.75	-4.30	4.67	-3.79	—	—
MONTH	5.30	-7.20	6.12	-5.19	6.10	-5.22	6.00	-4.64	5.53	-4.86	5.87	-5.08
YEAR	6.50	-7.20										

02226178 EAST RIVER AT MAYORS POINT TERMINAL AT BRUNSWICK, GA.

LOCATION.--Lat 31°08'38", long 81°29'49", Glynn County, Hydrologic Unit 03070203, at Georgia Ports Authority's Mayors Point Terminal Dock, 1.2 mi upstream of the Brunswick River, and 0.4 mi southwest of Brunswick Post Office.

PERIOD OF RECORD.--May 1988 to current year.

GAGE-HEIGHT RECORDS

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR CURRENT PERIOD.--May 1988 to September 1988. Maximum elevation recorded, 5.82 ft, Sept. 27; minimum elevation recorded, -5.59 ft, Aug. 29.

Water Year 1989: Maximum elevation recorded, 6.07 ft, March 9; minimum elevation recorded, -7.08 ft, April 7.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			—	—	4.82	-3.86	5.35	-4.01	4.41	-5.20	4.59	-3.45
2			—	—	4.77	-4.03	5.11	-3.80	4.40	-4.96	4.32	-3.22
3			—	—	5.57	-4.14	4.78	-3.68	4.62	-4.19	4.03	-2.98
4			—	—	5.15	-2.30	4.80	-3.68	4.46	-3.63	3.61	-2.88
5			—	—	5.23	-2.96	4.66	-3.31	4.26	-3.40	3.02	-3.51
6			—	—	4.55	-3.57	4.52	-2.55	3.87	-3.56	3.48	-2.91
7			—	—	3.96	-4.03	4.40	-2.98	3.89	-3.52	4.99	-1.92
8			—	—	4.24	-4.02	4.06	-3.74	3.84	-3.16	4.65	-2.54
9			—	—	3.79	-4.52	3.82	-4.11	4.05	-3.19	4.10	-2.94
10			—	—	4.56	-4.55	3.94	-4.06	3.87	-3.20	4.07	-3.39
11			—	—	4.91	-3.25	3.78	-4.12	4.06	-3.72	4.18	-3.14
12			—	—	4.88	-3.75	3.86	-4.35	4.14	-3.54	4.06	-3.01
13			—	—	4.70	-3.76	3.75	-4.26	4.29	-3.30	3.76	-3.18
14			—	—	4.42	-3.83	3.79	-4.29	3.61	-3.55	3.64	-3.21
15			—	—	4.28	-3.60	3.49	-3.90	3.37	-3.63	3.87	-3.10
16			—	—	4.24	-3.24	3.33	-3.84	3.00	-3.55	4.34	-2.13
17			—	—	3.91	-3.18	3.28	-3.84	3.16	-3.57	3.99	-2.16
18			—	—	3.59	-3.23	2.91	-3.74	3.02	-3.45	3.59	-2.40
19			—	—	3.43	-3.12	2.79	-3.37	2.95	-3.31	3.91	-2.01
20			—	—	3.43	-2.69	2.75	-3.29	2.87	-3.04	4.18	-2.34
21			—	—	3.32	-2.46	2.55	-3.30	3.38	-3.27	4.30	-3.13
22			—	—	3.28	-2.47	2.81	-3.30	3.96	-3.30	5.11	-3.08
23			—	—	3.29	-2.63	2.67	-3.55	4.49	-2.81	5.33	-3.71
24			2.50	-3.20	3.45	-2.84	3.27	-3.78	4.63	-3.58	5.18	-4.49
25			2.69	-4.18	4.25	-2.23	3.80	-3.49	4.79	-4.17	5.28	-5.07
26			4.28	-1.30	4.39	-2.55	4.44	-3.73	5.01	-5.02	5.38	-4.80
27			4.20	-2.35	5.00	-3.71	4.90	-4.15	5.21	-5.52	5.82	-3.94
28			4.20	-3.09	5.14	-2.96	5.03	-4.61	4.82	-4.95	5.43	-3.95
29			4.33	-3.80	5.02	-3.76	5.14	-5.10	4.40	-5.59	5.65	-2.99
30			4.75	-3.54	4.92	-4.55	5.06	-4.92	4.54	-5.24	4.96	-2.63
31			4.83	-3.76	—	—	4.72	-5.04	4.71	-4.32	—	—
MONTH			—	—	5.57	-4.55	5.35	-5.10	5.21	-5.59	5.82	-5.07

02226178 EAST RIVER AT MAYORS POINT TERMINAL AT BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.66	-2.17	4.05	-1.61	2.64	-2.46	2.86	-2.78	2.76	-3.31	2.68	-1.90
2	4.08	-2.08	3.26	-2.29	2.47	-2.90	2.89	-2.40	2.85	-3.96	3.50	-1.31
3	3.82	-2.04	3.27	-2.02	2.44	-3.34	3.49	-3.98	3.30	-4.51	4.17	-2.98
4	3.84	-2.11	3.68	-2.12	2.50	-3.02	3.29	-4.03	3.59	-4.56	3.93	-3.59
5	4.11	-1.42	3.70	-3.28	3.88	-2.79	4.05	-3.88	4.73	-4.48	4.28	-4.07
6	4.36	-1.31	3.27	-3.77	4.06	-3.42	4.51	-3.99	5.00	-4.65	4.54	-4.81
7	4.48	-1.32	3.22	-3.90	3.98	-3.51	4.21	-4.56	4.83	-5.26	5.30	-5.52
8	4.66	-1.43	3.45	-3.96	3.97	-3.97	4.51	-4.59	4.34	-5.49	5.55	-3.95
9	4.60	-1.96	3.71	-4.06	4.21	-4.24	4.51	-4.81	4.44	-4.84	6.07	-4.02
10	4.63	-2.30	4.18	-3.85	4.63	-4.03	4.93	-3.84	—	—	5.98	-3.47
11	4.31	-2.78	3.90	-4.07	4.61	-3.88	4.86	-3.85	—	—	5.73	-3.55
12	4.08	-3.50	4.60	-2.66	5.38	-2.77	4.46	-4.36	—	—	5.40	-3.63
13	4.59	-3.10	4.34	-3.24	4.59	-4.03	3.95	-4.62	—	—	4.45	-2.78
14	4.28	-2.61	3.97	-3.11	4.16	-3.65	4.47	-3.03	—	—	4.01	-2.64
15	4.05	-2.37	3.98	-2.91	3.67	-3.78	3.98	-3.94	—	—	3.40	-3.27
16	3.91	-2.36	4.16	-2.97	3.72	-3.44	3.32	-4.16	—	—	3.04	-3.22
17	3.82	-2.18	3.56	-3.84	4.03	-4.24	3.86	-3.53	—	—	3.48	-3.02
18	4.03	-2.15	4.03	-3.05	3.74	-4.10	3.99	-4.42	—	—	3.53	-3.32
19	3.83	-2.70	4.56	-3.81	4.02	-4.49	3.71	-4.45	—	—	3.86	-3.31
20	5.17	-2.20	4.69	-4.95	4.14	-4.49	3.99	-4.61	—	—	4.31	-3.08
21	4.64	-3.75	4.35	-5.00	4.25	-4.53	4.61	-4.57	—	—	3.65	-4.11
22	4.58	-3.81	5.11	-4.30	4.40	-4.77	5.12	-2.74	—	—	4.63	-4.20
23	5.16	-4.28	5.46	-4.01	4.88	-4.26	4.73	-2.64	2.58	-4.94	4.67	-2.16
24	5.31	-4.31	5.27	-3.82	4.43	-4.22	4.61	-3.30	2.99	-4.85	3.94	-3.42
25	5.36	-5.12	4.78	-3.75	3.94	-4.34	3.87	-3.57	3.30	-3.31	3.75	-3.49
26	5.20	-4.54	4.60	-3.73	4.08	-3.59	3.28	-3.50	3.12	-3.49	3.55	-3.18
27	5.23	-4.18	4.00	-3.45	4.12	-3.03	2.83	-3.28	2.30	-2.91	3.21	-3.07
28	4.80	-3.52	2.59	-3.52	3.38	-3.83	3.16	-2.39	2.59	-3.28	3.14	-2.94
29	4.38	-3.18	3.59	-2.79	2.88	-2.92	3.05	-2.42	—	—	3.06	-2.65
30	4.61	-1.84	3.22	-2.31	3.17	-2.13	2.96	-2.51	—	—	3.00	-3.14
31	4.59	-1.07	—	—	3.00	-2.39	2.39	-2.64	—	—	2.68	-3.95
MONTH	5.36	-5.12	5.46	-5.00	5.38	-4.77	5.12	-4.81	—	—	6.07	-5.52

02226178 EAST RIVER AT MAYORS POINT TERMINAL AT BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.06	-3.65	4.23	-4.20	4.79	-4.74	5.54	-3.27	4.14	-4.64	4.13	-3.21
2	3.49	-3.96	4.29	-4.99	4.87	-5.14	5.37	-3.78	4.38	-4.35	3.75	-3.16
3	4.01	-4.66	5.06	-4.93	5.01	-5.09	4.88	-4.09	4.50	-3.82	3.71	-3.68
4	4.52	-5.32	5.65	-4.57	4.97	-4.82	4.69	-3.95	3.95	-3.32	4.16	-2.19
5	4.86	-5.84	5.56	-4.99	4.37	-4.65	4.24	-3.74	3.33	-3.66	3.72	-2.64
6	4.67	-6.19	5.24	-5.11	4.51	-4.77	3.43	-4.07	3.19	-3.70	3.85	-1.70
7	4.21	-7.08	4.93	-4.97	4.28	-4.11	2.96	-4.05	3.32	-2.98	4.08	-1.24
8	4.18	-5.57	4.78	-3.85	3.74	-3.88	2.86	-4.01	3.53	-2.54	4.26	-0.82
9	4.41	-4.98	4.23	-3.66	3.66	-4.01	3.01	-3.53	3.86	-1.62	4.10	-1.38
10	4.16	-3.73	3.78	-3.89	2.70	-3.94	2.93	-2.94	3.81	-1.58	4.31	-1.74
11	4.21	-2.71	3.01	-3.04	2.73	-3.32	2.92	-3.07	3.63	-1.81	4.27	-2.28
12	4.07	-1.91	3.60	-2.69	3.26	-2.95	3.02	-2.97	3.89	-2.15	4.71	-2.77
13	3.93	-1.99	3.20	-2.88	3.05	-3.19	3.02	-3.35	4.00	-2.51	5.19	-3.07
14	3.37	-2.39	3.28	-2.84	3.18	-3.71	3.12	-3.61	4.49	-2.90	5.15	-3.82
15	3.57	-2.63	3.38	-3.12	3.33	-3.74	3.80	-3.01	4.89	-3.74	5.11	-4.39
16	3.58	-2.98	3.54	-3.09	3.48	-3.80	3.89	-3.70	4.83	-4.15	4.91	-4.80
17	3.35	-3.28	3.81	-3.07	4.01	-3.81	4.05	-4.13	5.13	-4.54	4.96	-4.94
18	3.66	-3.38	4.16	-3.15	3.99	-3.80	4.68	-4.06	4.76	-4.46	5.28	-4.65
19	3.70	-3.71	4.33	-3.14	4.25	-3.75	4.74	-4.30	4.69	-4.68	5.13	-3.31
20	4.50	-3.76	4.39	-3.22	4.35	-3.63	4.82	-4.40	4.83	-4.37	4.70	-3.33
21	4.84	-2.83	3.72	-3.58	4.24	-3.91	4.60	-4.17	4.67	-4.03	4.83	-2.53
22	4.48	-2.91	4.20	-3.73	4.09	-4.10	4.32	-4.12	4.38	-4.17	3.99	-3.33
23	3.76	-3.73	3.57	-3.63	3.99	-4.17	4.23	-4.48	4.01	-4.11	3.85	-3.25
24	3.84	-3.55	3.77	-4.20	3.97	-4.12	4.19	-4.32	3.91	-3.96	4.78	-1.27
25	3.40	-3.34	3.78	-3.62	3.88	-4.16	4.31	-4.12	4.27	-3.69	4.70	-1.93
26	3.43	-3.36	3.84	-3.62	4.20	-3.64	4.47	-3.39	4.63	-2.46	4.10	-2.94
27	3.47	-3.02	3.60	-3.92	4.21	-4.04	4.21	-3.66	4.58	-3.05	5.45	-2.66
28	3.52	-2.92	4.33	-3.40	4.52	-4.27	4.00	-4.33	4.51	-3.19	5.02	-1.81
29	3.70	-2.89	4.68	-2.72	4.87	-4.23	4.32	-4.26	4.70	-3.43	4.94	-2.84
30	3.79	-3.52	4.69	-3.84	5.66	-3.27	4.64	-3.99	4.42	-3.36	4.20	-2.82
31	---	---	4.70	-4.40	---	---	4.29	-4.23	4.21	-3.58	---	---
MONTH	4.86	-7.08	5.65	-5.11	5.66	-5.14	5.54	-4.48	5.13	-4.68	5.45	-4.94

022261792 SOUTH BRUNSWICK RIVER AT COLONELS ISLAND NEAR BRUNSWICK, GA.

LOCATION.--Lat 31°07'55", long 81°32'13", Glynn County, Hydrologic Unit 03070203, at Georgia Ports Authority's Colonels Island Terminal Dock, approximately 1 mi upstream from confluence of South Brunswick and Turtle Rivers, and 2.9 mi west-southwest of Brunswick Post office.
PERIOD OF RECORD.--May 1988 to current year.

GAGE-HEIGHT RECORDS

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).
EXTREMES FOR CURRENT PERIOD.--May 1988 to September 1988:. Maximum elevation recorded, 5.98 ft, Sept. 27; minimum elevation recorded, -5.68 ft, Aug. 29.

Water Year 1989: Maximum elevation recorded, 6.19 ft, March 9; minimum elevation recorded, -7.21 ft, April 7.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			—	—	4.94	-3.91	5.51	-4.09	4.55	-5.27	4.77	-3.42
2			—	—	4.90	-4.09	5.26	-3.87	4.56	-5.04	4.54	-3.26
3			—	—	5.59	-4.25	4.97	-3.80	4.78	-4.28	4.19	-2.99
4			—	—	5.50	-2.35	4.95	-3.73	4.62	-3.67	3.77	-2.86
5			—	—	5.38	-3.00	4.79	-3.41	4.42	-3.43	3.18	-3.50
6			—	—	4.65	-3.62	4.70	-2.56	4.05	-3.58	3.59	-2.83
7			—	—	4.03	-4.10	4.55	-3.02	4.07	-3.52	5.20	-1.90
8			—	—	4.39	-4.08	4.21	-3.78	3.99	-3.18	4.63	-2.59
9			—	—	3.89	-4.56	3.99	-4.19	4.21	-3.21	4.28	-2.96
10			—	—	4.68	-4.63	4.07	-4.08	4.04	-3.17	4.22	-3.41
11			—	—	5.07	-3.27	3.92	-4.14	4.22	-3.73	4.35	-3.19
12			—	—	5.03	-3.78	3.97	-4.38	4.28	-3.55	4.23	-3.06
13			—	—	4.85	-3.79	3.90	-4.28	4.34	-3.35	3.92	-3.25
14			—	—	4.58	-3.87	3.90	-4.26	3.78	-3.59	3.80	-3.24
15			—	—	4.43	-3.64	3.65	-3.91	3.44	-3.67	4.02	-3.16
16			—	—	4.36	-3.31	3.48	-3.90	3.12	-3.57	4.53	-2.18
17			—	—	4.05	-3.24	3.43	-3.85	3.28	-3.59	4.09	-2.19
18			—	—	3.72	-3.31	3.03	-3.76	3.18	-3.45	3.74	-2.39
19			—	—	3.67	-3.21	2.83	-3.42	3.11	-3.30	4.06	-2.00
20			—	—	3.57	-2.76	2.89	-3.31	2.98	-3.07	4.33	-2.38
21			—	—	3.44	-2.47	2.67	-3.35	3.52	-3.28	4.43	-3.19
22			—	—	3.43	-2.51	2.86	-3.23	4.12	-3.28	5.25	-3.15
23			—	—	3.42	-2.63	2.82	-3.52	4.68	-2.85	5.46	-3.78
24			—	—	3.58	-2.83	3.39	-3.80	4.78	-3.59	5.31	-4.56
25			2.81	-4.24	4.40	-2.22	3.97	-3.49	4.94	-4.21	5.41	-5.20
26			4.37	-1.31	4.54	-2.58	4.57	-3.77	5.17	-5.05	5.51	-4.90
27			4.36	-2.42	5.14	-3.76	5.03	-4.15	5.37	-5.60	5.98	-4.06
28			4.32	-3.15	5.30	-3.00	5.19	-4.65	4.93	-4.99	5.59	-4.05
29			4.45	-3.84	5.17	-3.79	5.31	-5.13	4.57	-5.68	5.78	-3.10
30			4.89	-3.60	4.99	-4.63	5.21	-5.01	4.69	-5.30	5.12	-2.69
31			4.99	-3.81	—	—	4.87	-5.14	4.86	-4.40	—	—
MONTH			—	—	5.59	-4.63	5.51	-5.14	5.37	-5.68	5.98	-5.20

022261792 SOUTH BRUNSWICK RIVER AT COLONELS ISLAND NEAR BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.81	-2.23	4.22	-1.60	2.84	-2.36	—	—	2.86	-3.36	2.82	-1.92
2	4.23	-2.10	3.40	-2.32	2.68	-2.86	—	—	2.97	-3.98	3.59	-1.25
3	3.93	-2.06	3.46	-1.97	2.67	-3.26	—	—	3.42	-4.55	4.26	-2.97
4	3.95	-2.06	3.83	-2.13	2.72	-2.96	—	—	3.71	-4.62	4.03	-3.60
5	4.29	-1.44	3.83	-3.24	4.08	-2.76	—	—	4.85	-4.55	4.41	-4.16
6	4.50	-1.31	3.45	-3.72	4.26	-3.38	4.68	-4.02	5.09	-4.75	4.67	-4.91
7	4.63	-1.35	3.38	-3.90	4.19	-3.51	4.36	-4.52	4.95	-5.37	5.37	-5.61
8	4.81	-1.50	3.64	-4.00	4.17	-3.98	4.69	-4.53	4.47	-5.60	5.62	-4.05
9	4.76	-2.04	3.92	-4.07	4.37	-4.26	—	—	4.55	-4.97	6.19	-4.13
10	4.79	-2.39	4.38	-3.88	4.80	-4.07	—	—	4.44	-4.85	6.08	-3.62
11	4.47	-2.84	4.10	-4.11	4.79	—	—	—	4.34	-4.49	6.01	-3.68
12	4.21	-3.60	4.84	-2.70	—	—	—	—	3.58	-4.13	5.53	-3.72
13	4.78	-3.17	4.53	-3.23	—	—	—	—	3.69	-3.72	4.59	-2.84
14	4.43	-2.65	4.18	-3.12	—	—	—	-3.09	3.31	-3.75	4.12	-2.62
15	4.25	-2.40	4.18	-2.85	—	—	4.13	-3.93	3.10	-3.87	3.51	-3.29
16	4.09	-2.39	4.33	-2.94	—	—	3.49	-4.22	3.35	-3.97	3.16	-3.24
17	3.97	-2.15	3.72	-3.83	—	—	3.99	-3.58	4.28	-3.90	3.64	-3.03
18	4.19	-2.11	4.21	-3.07	—	—	4.11	-4.48	4.73	-2.17	3.64	-3.40
19	3.96	-2.69	4.79	-3.81	—	—	3.86	-4.51	4.59	-2.88	3.96	-3.41
20	5.36	-2.24	4.88	-4.94	—	—	4.10	-4.68	4.69	-3.25	4.41	-3.18
21	4.82	-3.86	4.54	-5.03	—	—	4.75	-4.65	4.27	-3.90	3.77	-4.22
22	4.76	-3.82	5.30	-4.30	—	—	5.27	-2.79	3.77	-4.14	4.78	-4.26
23	5.33	-4.30	5.63	-3.99	—	—	4.86	-2.76	2.72	-5.05	4.78	-2.22
24	5.47	-4.39	5.48	-3.80	—	—	4.72	-3.41	3.10	-4.94	4.03	-3.50
25	5.54	-5.21	4.97	-3.77	—	—	3.98	-3.67	3.40	-3.40	3.86	-3.57
26	5.37	-4.59	4.81	-3.74	—	—	3.39	-3.56	3.35	-3.53	3.66	-3.24
27	5.42	-4.23	4.20	-3.44	—	—	3.00	-3.35	2.39	-2.97	3.36	-3.18
28	5.00	-3.58	2.83	-3.41	—	—	3.29	-2.47	2.70	-3.36	3.30	-2.99
29	4.56	-3.18	3.82	-2.72	—	—	3.15	-2.46	—	—	3.16	-2.65
30	4.80	-1.82	3.41	-2.24	—	—	3.05	-2.51	—	—	3.10	-3.13
31	4.79	-1.05	—	—	—	—	2.54	-2.61	—	—	2.78	-3.97
MONTH	5.54	-5.21	5.63	-5.03	—	—	—	—	5.09	-5.60	6.19	-5.61

022261792 SOUTH BRUNSWICK RIVER AT COLONELS ISLAND NEAR BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.18	-3.74	4.31	-4.29	4.93	-4.83	5.67	-3.35	4.21	-4.70	4.25	-3.29
2	3.60	-3.99	4.40	-5.10	4.95	-5.25	5.49	-3.88	4.48	-4.45	3.84	-3.28
3	4.10	-4.72	5.18	-5.01	5.11	-5.16	4.99	-4.16	4.62	-3.95	3.81	-3.74
4	4.64	-5.43	5.77	-4.71	5.09	-4.90	4.68	-4.03	4.07	-3.40	4.28	-2.15
5	4.95	-5.95	5.65	-5.10	4.47	-4.64	4.22	-3.79	3.43	-3.77	3.81	-2.63
6	4.81	-6.28	5.35	-5.22	4.57	-4.85	3.41	-4.14	3.31	-3.78	3.94	-1.78
7	4.32	-7.21	5.04	-5.08	4.21	-4.19	3.04	-4.16	3.38	-3.06	4.18	-1.27
8	4.32	-5.68	4.88	-3.94	3.91	-3.92	2.93	-4.10	3.64	-2.59	4.38	-0.83
9	4.53	-5.04	4.51	-3.76	3.79	-4.04	3.01	-3.53	3.99	-1.63	4.24	-1.41
10	4.41	-3.80	3.97	-3.92	2.80	-4.00	2.93	-3.01	3.93	-1.64	4.43	-1.81
11	4.36	-2.76	3.11	-3.07	2.85	-3.36	3.02	-3.12	3.73	-1.79	4.38	-2.34
12	4.22	-1.96	3.71	-2.73	3.37	-2.94	3.11	-2.96	3.98	-2.21	4.84	-2.83
13	4.06	-1.99	3.32	-2.87	3.14	-3.22	3.10	-3.30	4.07	-2.54	5.33	-3.15
14	3.45	-2.44	3.41	-2.89	3.31	-3.75	3.12	-3.58	4.61	-2.90	5.24	-3.92
15	3.61	-2.68	3.47	-3.05	3.42	-3.78	3.87	-3.01	4.94	-3.85	5.24	-4.49
16	3.68	-3.07	3.67	-3.13	3.62	-3.85	3.89	-3.61	4.80	-4.26	4.89	-4.93
17	3.48	-3.35	3.96	-3.13	4.01	-3.86	4.05	-4.14	5.08	-4.68	5.08	-5.06
18	3.77	-3.46	4.28	-3.21	4.07	-3.83	4.65	-4.02	4.74	-4.60	5.41	-4.75
19	3.83	-3.74	4.46	-3.21	4.40	-3.80	4.71	-4.27	4.81	-4.81	5.26	-3.39
20	4.62	-3.82	4.51	-3.23	4.46	-3.71	4.84	-4.50	4.96	-4.50	4.83	-3.41
21	4.96	-2.91	3.83	-3.66	4.33	-4.00	4.73	-4.28	4.79	-4.15	4.93	-2.54
22	4.61	-2.99	4.27	-3.87	4.22	-4.17	4.39	-4.23	4.48	-4.27	4.09	-3.40
23	3.88	-3.81	3.63	-3.70	4.12	-4.22	4.36	-4.58	4.01	-4.19	3.96	-3.28
24	3.93	-3.63	3.87	-4.10	4.13	-4.19	4.34	-4.40	3.89	-3.99	4.85	---
25	3.49	-3.40	3.83	-3.71	4.01	-4.21	4.39	-4.16	4.35	-3.76	4.43	---
26	3.54	-3.41	3.91	-3.69	4.24	-3.70	4.61	-3.44	4.74	-2.50	3.80	-3.43
27	3.57	-3.06	3.72	-4.00	4.24	-4.13	4.37	-3.70	4.73	-3.10	5.61	-2.74
28	3.62	-2.98	4.49	-3.43	4.67	-4.31	4.09	-4.41	4.64	-3.25	5.14	-1.86
29	3.79	-2.96	4.83	-2.80	4.96	-4.30	4.31	-4.30	4.80	-3.51	5.10	-2.95
30	3.94	-3.55	4.84	-3.95	5.78	-3.31	4.75	-4.04	4.54	-3.45	4.31	-2.90
31	---	---	4.83	-4.50	---	---	4.44	-4.32	4.35	-3.71	---	---
MONTH	4.96	-7.21	5.77	-5.22	5.78	-5.25	5.67	-4.58	5.08	-4.81	5.61	---

022261796 BRUNSWICK RIVER (CLAM CREEK ROAD-JEKYLL ISLAND) NEAR BRUNSWICK, GA.

LOCATION.–Lat 31°07'02", long 81°25'04", Glynn County, Hydrologic Unit 03070203, on landward side of Jekyll Island fishing pier, at north end of Jekyll Island on Clam Creek Road, 5.0 mi southeast of Brunswick Post Office.

PERIOD OF RECORD.–June 1988 to current year.

GAGE-HEIGHT RECORDS

GAGE.–Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR CURRENT PERIOD.–June 1988 to September 1988. Maximum elevation recorded, 5.47 ft, Sept. 27; minimum elevation recorded, -5.35 ft, Aug. 29.

Water Year 1989: Maximum elevation recorded, 5.77 ft, March 10; minimum elevation recorded, -6.78 ft, April 7.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					—	—	5.01	-3.77	4.11	-4.95	4.30	-3.25
2					4.44	-3.85	4.78	-3.60	4.07	-4.76	4.03	-3.09
3					5.19	-3.94	4.44	-3.47	4.30	-3.99	3.71	-2.93
4					4.80	-2.20	4.32	-3.48	4.14	-3.47	3.32	-2.87
5					4.84	-2.84	4.33	-3.10	3.94	-3.27	2.65	-3.48
6					4.24	-3.44	4.17	-2.51	3.55	-3.45	3.13	-2.92
7					3.62	-3.86	4.10	-2.98	3.57	-3.38	4.64	-1.88
8					3.87	-3.89	3.73	-3.62	3.53	-3.13	4.22	-2.38
9					3.49	-4.38	3.53	-3.95	3.69	-3.14	3.82	-2.81
10					4.26	-4.37	3.62	-3.97	3.53	-3.16	3.76	-3.24
11					4.59	-3.16	3.50	-4.03	3.76	-3.64	3.88	-2.93
12					4.57	-3.60	3.53	-4.22	3.83	-3.41	3.77	-2.81
13					4.33	-3.67	3.44	-4.17	3.93	-3.16	3.49	-2.99
14					4.14	-3.72	3.48	-4.14	3.30	-3.42	3.34	-3.02
15					4.01	-3.54	3.17	-3.80	2.96	-3.50	3.57	-2.91
16					3.93	-3.09	3.05	-3.70	2.67	-3.44	4.05	-1.99
17					3.63	-3.01	2.98	-3.71	2.81	-3.42	3.68	-2.05
18					3.28	-3.11	2.56	-3.64	2.70	-3.30	3.34	-2.34
19					3.13	-2.97	2.46	-3.30	2.64	-3.24	3.63	-2.00
20					3.11	-2.53	2.42	-3.19	2.50	-2.99	3.90	-2.27
21					3.01	-2.42	2.23	-3.25	3.06	-3.22	4.01	-3.01
22					3.00	-2.43	2.35	-3.33	3.64	-3.17	4.76	-2.89
23					2.96	-2.62	2.35	-3.42	4.16	-2.60	5.04	-3.44
24					3.12	-2.76	2.95	-3.68	4.31	-3.47	4.88	-4.24
25					3.93	-2.12	3.48	-3.37	4.43	-3.96	4.94	-4.81
26					4.08	-2.94	4.10	-3.63	4.71	-4.83	5.07	-4.50
27					4.70	-3.53	4.56	-4.07	4.90	-5.29	5.47	-3.68
28					4.83	-2.82	4.68	-4.48	4.53	-4.69	5.13	-3.70
29					4.68	-3.64	4.82	-4.91	4.13	-5.35	5.30	-2.77
30					4.63	-4.38	4.74	-4.72	4.22	-5.02	4.61	-2.49
31					—	—	4.42	-4.79	4.39	-4.10	—	—
MONTH					—	—	5.01	-4.91	4.90	-5.35	5.47	-4.81

022261796 BRUNSWICK RIVER (CLAM CREEK ROAD-JEKYLL ISLAND) NEAR BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.31	-2.06	3.79	-1.54	2.36	-2.42	2.64	-2.71	2.44	-3.23	2.37	-1.88
2	3.77	-2.04	3.00	-2.11	2.16	-2.76	2.68	-2.31	2.55	-3.90	3.23	-1.38
3	3.54	-2.00	2.99	-1.94	2.20	-3.21	3.24	—	2.99	-4.41	3.92	-2.91
4	3.55	-2.04	3.42	-1.99	2.22	-2.91	—	—	3.29	-4.43	3.66	-3.48
5	3.83	-1.33	3.41	-3.14	3.64	-2.66	—	—	4.43	-4.29	4.07	-3.91
6	4.07	-1.24	3.00	-3.70	3.83	-3.31	—	—	4.69	-4.44	4.29	-4.63
7	4.21	-1.13	2.92	-3.82	3.73	-3.33	—	—	4.52	-5.01	5.01	-5.19
8	4.36	-1.29	3.18	-3.82	3.71	-3.78	—	—	4.04	-5.23	5.34	-3.68
9	4.33	-1.78	3.43	-3.90	3.97	-4.04	—	—	4.19	-4.57	5.74	-3.63
10	4.35	-2.10	3.93	-3.68	4.39	-3.79	—	—	3.97	-4.50	5.77	-3.28
11	4.05	-2.57	3.65	-3.88	4.37	-3.65	—	-3.62	3.89	-4.23	5.07	-3.29
12	3.81	-3.30	4.34	-2.51	5.10	-2.59	4.22	-4.11	3.15	-3.94	5.07	-3.42
13	4.29	-2.91	4.08	-3.04	4.39	-3.74	3.66	-4.41	3.29	-3.67	4.17	-2.61
14	3.98	-2.44	3.69	-2.94	3.91	-3.46	4.19	-2.93	2.89	-3.69	3.77	-2.65
15	3.77	-2.20	3.70	-2.81	3.42	-3.65	3.71	-3.86	2.67	-3.78	3.11	-3.20
16	3.65	-2.26	3.86	-2.81	3.47	-3.26	2.94	-4.04	2.91	-3.82	2.75	-3.13
17	3.54	-2.11	3.27	-3.72	3.82	-4.09	3.48	-3.39	3.76	-3.70	3.19	-2.90
18	3.76	-2.13	3.76	-2.85	3.54	-3.94	3.61	-4.31	4.35	-1.93	3.26	-3.16
19	3.56	-2.62	4.28	-3.57	3.79	-4.30	3.33	-4.28	4.20	-2.69	3.59	-3.17
20	4.83	-2.00	4.41	-4.80	3.91	-4.32	3.71	-4.47	4.25	-3.00	4.02	-2.89
21	4.34	-3.49	4.10	-4.78	4.02	-4.34	4.28	-4.42	3.84	-3.68	3.40	-3.89
22	4.31	-3.85	4.81	-4.15	4.15	-4.56	4.81	-2.60	3.39	-3.90	4.32	-4.01
23	4.87	-4.00	5.19	-3.69	4.63	-4.03	4.47	-2.41	2.33	—	4.49	-1.94
24	4.99	-4.02	5.03	-3.58	4.17	-4.03	4.31	-3.09	2.69	-4.88	3.66	-3.21
25	5.09	-4.85	4.50	-3.51	3.69	-4.16	3.61	-3.38	3.01	-3.17	3.48	-3.26
26	4.90	-4.26	4.31	-3.54	3.83	-3.41	2.99	-3.32	2.68	-3.32	3.26	-2.98
27	4.95	-3.92	3.74	-3.30	3.87	-2.83	2.60	-3.11	2.03	-2.82	2.91	-3.05
28	4.53	-3.26	2.04	-3.42	3.07	-3.63	2.85	-2.28	2.28	-3.38	2.72	-2.92
29	4.12	-2.99	3.32	-2.75	2.60	-2.78	2.80	-2.36	—	—	2.80	-2.67
30	4.35	-1.81	2.95	-2.19	2.86	-2.04	2.66	-2.52	—	—	2.69	-3.07
31	4.34	-1.02	—	—	2.72	-2.27	2.06	-2.62	—	—	2.38	-3.83
MONTH	5.09	-4.85	5.19	-4.80	5.10	-4.56	—	—	4.69	—	5.77	-5.19

022261796 BRUNSWICK RIVER (CLAM CREEK ROAD-JEKYLL ISLAND) NEAR BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.74	-3.48	3.92	-3.95	4.47	-4.55	5.21	-3.11	3.82	-4.48	3.82	-3.02
2	3.14	-3.79	4.01	-4.93	4.67	-4.97	5.04	-3.64	4.14	-4.09	3.45	-2.95
3	3.77	-4.47	4.69	-4.70	4.71	-4.93	4.61	-3.90	4.23	-3.61	3.47	-3.45
4	4.29	-5.09	5.26	-4.37	4.69	-4.68	4.40	-3.75	3.69	-3.03	3.92	-1.95
5	4.61	-5.65	5.21	-4.78	4.05	-4.39	3.97	-3.52	3.03	-3.46	3.47	-2.39
6	4.40	-5.90	4.98	-4.85	4.27	-4.58	3.20	-3.83	2.93	-3.57	3.63	-1.55
7	3.99	-6.78	4.60	-4.69	3.92	-3.88	2.66	-3.92	3.03	-2.82	3.85	-1.22
8	3.94	-5.37	4.47	-3.69	3.44	-3.72	2.65	-3.91	3.25	-2.41	3.97	-0.82
9	4.09	-4.72	3.65	-3.49	3.24	-3.91	2.42	-3.37	3.55	-1.58	3.86	-1.35
10	3.90	-4.11	3.35	-3.77	2.35	-3.87	2.63	-2.87	3.54	-1.55	4.02	-1.60
11	3.93	-2.55	2.66	-2.93	2.43	-3.20	2.61	-3.05	3.42	-1.78	3.99	-2.13
12	3.76	-1.77	3.32	-2.61	2.92	-2.84	2.75	-2.94	3.64	-2.08	4.46	-2.61
13	3.70	-2.00	2.90	-2.83	2.75	-3.05	2.71	-3.28	3.72	-2.39	4.83	-2.84
14	3.09	-2.30	3.07	-2.79	2.91	-3.58	2.84	-3.54	4.24	-2.87	4.92	-3.56
15	3.23	-2.63	3.10	-3.03	3.03	-3.61	3.53	-2.94	4.49	-3.56	4.84	-4.11
16	3.27	-2.88	3.29	-2.97	3.23	-3.53	3.64	-3.55	4.50	-4.03	4.65	-4.56
17	3.05	-3.18	3.50	-2.92	3.58	-3.72	3.79	-4.05	4.81	-4.34	4.62	-4.69
18	3.40	-3.24	3.86	-3.05	3.67	-3.66	4.38	-4.06	4.49	-4.19	4.94	-4.42
19	3.46	-3.58	4.04	-3.10	4.01	-3.68	4.44	-4.06	4.44	-4.46	4.86	-3.12
20	4.27	-3.57	4.12	-3.10	4.03	-3.58	4.33	-4.13	4.57	-4.14	4.33	-3.12
21	4.51	-2.61	3.45	-3.41	3.96	-3.73	4.19	-3.94	4.52	-3.79	4.49	-2.40
22	4.22	-2.77	3.91	-3.57	3.84	-3.88	4.12	-3.91	4.11	-3.97	3.81	-3.36
23	3.49	-3.57	3.28	-3.47	3.73	-4.00	3.96	-4.23	3.71	-3.99	3.56	-3.10
24	3.55	-3.35	3.44	-4.13	3.54	-3.89	3.84	-4.15	3.67	-3.85	4.49	-1.27
25	3.11	-3.20	3.53	-3.47	3.54	-4.03	4.07	-4.02	3.96	-3.58	4.43	-1.68
26	3.16	-3.20	3.47	-3.47	3.88	-3.50	4.21	-3.36	4.29	-2.41	3.79	-2.79
27	3.07	-2.93	3.34	-3.79	3.92	-3.88	3.95	-3.54	4.31	-2.96	5.01	-2.51
28	3.20	-2.75	4.01	-3.21	4.23	-4.14	3.71	-4.19	4.18	-3.09	4.74	-1.56
29	3.39	-2.83	4.39	-2.55	4.56	-4.08	3.99	-4.18	4.39	-3.26	4.53	-2.57
30	3.43	-3.37	4.43	-3.69	5.39	-3.12	4.33	-3.86	4.12	-3.23	3.90	-2.62
31	—	—	4.39	-4.21	—	—	4.04	-4.10	3.97	-3.36	—	—
MONTH	4.61	-6.78	5.26	-4.93	5.39	-4.97	5.21	-4.23	4.81	-4.48	5.01	-4.69

022261798 MAKAY RIVER AT TORRAS CAUSEWAY NEAR BRUNSWICK, GA.

LOCATION.--Lat 31°10'17", long 81°25'37", Glynn County, Hydrologic Unit 03070203, at downstream side of fish pier (Old Torros Causeway), 20 ft downstream of Torras Causeway, approximately 3.5 mi upstream of St. Simons Sound, and 4.2 mi east-northeast of Brunswick Post Office.

PERIOD OF RECORD.--July 1988 to current year.

GAGE-HEIGHT RECORDS

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR CURRENT PERIOD.--July 1988 to September 1988. Maximum elevation recorded, 5.75 ft, Sept. 27; minimum elevation recorded, -5.21 ft, Aug. 27.

Water Year 1989: Maximum elevation recorded, 5.96 ft, March 9; minimum elevation recorded, -6.74 ft, April 7.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							—	—	4.34	-4.85	4.53	-3.18
2							—	—	4.32	-4.65	4.28	-3.04
3							—	—	4.53	-3.93	3.99	-2.81
4							—	—	4.36	-3.38	3.62	-2.71
5							—	—	4.18	-3.18	2.97	-3.35
6							—	—	3.80	-3.37	3.38	-2.71
7							—	—	3.82	-3.29	4.89	-1.78
8							—	—	3.77	-3.00	4.54	-2.29
9							—	—	3.95	-3.02	4.12	-2.65
10							—	—	3.80	-3.04	4.06	-3.11
11							—	—	4.00	-3.52	4.16	-2.83
12							—	—	4.08	-3.30	4.05	-2.73
13							3.71	-4.09	4.12	-3.07	3.75	-2.90
14							3.73	-4.05	3.59	-3.32	3.63	-2.93
15							3.42	-3.70	3.28	-3.36	3.85	-2.83
16							3.27	-3.64	2.98	-3.28	4.33	-1.88
17							3.20	-3.62	3.11	-3.32	4.01	-1.95
18							2.83	-3.58	3.01	-3.20	3.66	-2.15
19							2.72	-3.22	2.91	-3.14	3.92	-1.84
20							2.67	-3.13	2.81	-2.84	4.20	-2.13
21							2.47	-3.17	3.35	-3.10	4.29	-2.90
22							2.63	-3.20	3.90	-3.08	5.04	-2.77
23							2.60	-3.38	4.40	-2.51	5.25	-3.35
24							3.16	-3.60	4.54	-3.37	5.12	-4.13
25							3.71	-3.29	4.68	-3.87	5.16	-4.70
26							4.33	-3.57	4.91	-4.75	5.29	-4.35
27							4.78	-3.96	5.12	-5.21	5.75	-3.59
28							4.90	-4.39	4.73	-4.57	5.36	-3.61
29							5.02	-4.80	4.34	-5.21	5.55	-2.65
30							4.93	-4.62	4.47	-4.91	4.97	-2.35
31							4.62	-4.73	4.62	-4.01	—	—
MONTH							—	—	5.12	-5.21	5.75	-4.70

022261798 MAKAY RIVER AT TORRAS CAUSEWAY NEAR BRUNSWICK, GA.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.65	-1.91	4.07	-1.41	2.67	-2.29	2.89	-2.64	2.71	-3.17	2.53	-1.84
2	4.13	-1.89	3.31	-2.04	2.48	-2.67	2.87	-2.23	2.80	-3.81	3.35	-1.31
3	3.87	-1.87	3.28	-1.77	2.48	-3.09	3.46	-3.82	3.25	-4.32	4.02	-2.89
4	3.85	-1.87	3.68	-1.86	2.51	-2.77	3.27	-3.72	3.52	-4.36	3.85	-3.48
5	4.12	-1.20	3.70	-3.03	3.89	-2.54	4.02	-3.58	4.63	-4.22	4.19	-3.85
6	4.36	-1.09	3.30	-3.54	4.09	-3.19	4.46	-3.70	4.88	-4.39	4.43	-4.52
7	4.50	-1.03	3.21	-3.69	3.99	-3.24	4.14	-4.29	4.72	-4.95	5.16	-5.20
8	4.64	-1.14	3.46	-3.71	3.97	-3.68	4.44	-4.31	4.24	-5.20	5.39	-3.71
9	4.61	-1.68	3.70	-3.78	4.17	-3.98	4.45	-4.49	4.36	-4.54	5.96	-3.73
10	4.63	-1.97	4.16	-3.59	4.56	-3.74	4.86	-3.57	4.17	-4.46	5.89	-3.20
11	4.33	-2.45	3.90	-3.78	4.55	-3.62	4.81	-3.60	4.11	-4.18	5.58	-3.26
12	4.08	-3.19	4.53	-2.39	5.28	-2.60	4.39	-4.10	3.37	-3.90	5.33	-3.39
13	4.51	-2.83	4.36	-2.93	4.60	-3.67	3.88	-4.41	3.51	-3.58	4.41	-2.56
14	4.27	-2.32	3.99	-2.82	4.15	-3.37	4.33	-2.89	3.11	-3.63	3.97	-2.57
15	4.06	-2.10	4.00	-2.67	3.66	-3.56	3.96	-3.81	2.89	-3.73	3.37	-3.15
16	3.95	-2.14	4.15	-2.69	3.71	-3.20	3.28	-4.02	3.16	-3.78	2.98	-3.13
17	3.83	-1.97	3.55	-3.61	4.03	-4.03	3.79	-3.36	3.94	-3.70	3.42	-2.85
18	4.05	-1.96	4.00	-2.77	3.75	-3.90	3.93	-4.26	4.52	-1.89	3.47	-3.16
19	3.84	-2.51	4.55	-3.47	4.01	-4.24	3.65	-4.24	4.38	-2.62	3.78	-3.15
20	5.10	-1.92	4.68	-4.68	4.11	-4.24	3.91	-4.44	4.46	-2.96	4.24	-2.86
21	4.62	-3.41	4.33	-4.70	4.21	-4.27	4.47	-4.41	4.09	-3.65	3.64	-3.89
22	4.56	-3.62	5.07	-4.04	4.34	-4.50	5.03	-2.61	3.59	-3.87	4.52	-3.99
23	5.10	-3.92	5.43	-3.59	4.82	-3.98	4.72	-2.38	2.51	-4.71	4.64	-1.92
24	5.24	-3.93	5.26	-3.48	4.37	-3.98	4.54	-3.05	2.88	-4.72	3.88	-3.22
25	5.31	-4.75	4.78	-3.41	3.91	-4.09	3.83	-3.33	3.20	-3.16	3.71	-3.25
26	5.14	-4.16	4.60	-3.42	4.03	-3.38	3.24	-3.27	2.97	-3.32	3.48	-2.97
27	5.18	-3.81	4.05	-3.15	4.08	-2.77	2.81	-3.09	2.19	-2.79	3.14	-2.92
28	4.76	-3.17	2.33	-3.27	3.32	-3.56	3.10	-2.20	2.49	-3.18	3.01	-2.83
29	4.37	-2.89	3.59	-2.57	2.85	-2.69	3.01	-2.24	—	—	3.02	-2.59
30	4.58	-1.66	3.26	-2.05	3.13	-1.98	2.88	-2.42	—	—	2.95	-2.98
31	4.59	-0.89	—	—	2.99	-2.22	2.34	-2.53	—	—	2.57	-3.83
MONTH	5.31	-4.75	5.43	-4.70	5.28	-4.50	5.03	-4.49	4.88	-5.20	5.96	-5.20

022261798 MAKAY RIVER AT TORRAS CAUSEWAY NEAR BRUNSWICK, GA.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.00	-3.49	4.14	-3.96	4.68	-4.52	5.46	-3.05	4.06	-4.44	4.02	-3.00
2	3.40	-3.77	4.22	-4.81	4.72	-4.92	5.28	-3.56	4.32	-4.07	3.65	-2.94
3	3.93	-4.41	4.94	-4.68	4.86	-4.88	4.83	-3.91	4.43	-3.60	3.60	-3.45
4	4.43	-5.06	5.51	-4.31	4.84	-4.62	4.64	-3.77	3.91	-3.04	4.05	-1.99
5	4.74	-5.58	5.42	-4.71	4.23	-4.35	4.20	-3.45	3.26	-3.44	3.66	-2.39
6	4.58	-5.94	5.12	-4.81	4.38	-4.53	3.39	-3.83	3.15	-3.53	3.78	-1.57
7	4.14	-6.74	4.81	-4.69	4.14	-3.84	2.91	-3.89	3.26	-2.79	4.01	-1.18
8	4.10	-5.27	4.67	-3.64	3.56	-3.72	2.87	-3.84	3.48	-2.40	4.12	-0.74
9	4.30	-4.74	3.91	-3.43	3.51	-3.88	2.66	-3.34	3.77	-1.51	4.01	-1.29
10	4.06	-3.53	3.68	-3.71	2.58	-3.84	2.89	-2.83	3.74	-1.50	4.21	-1.58
11	4.11	-2.56	2.91	-2.91	2.61	-3.22	2.83	-2.96	3.55	-1.72	4.16	-2.11
12	4.01	-1.78	3.54	-2.53	3.14	-2.84	2.95	-2.90	3.78	-2.06	4.60	-2.60
13	3.87	-1.95	3.13	-2.79	2.93	-3.03	2.92	-3.23	3.89	-2.35	5.06	-2.83
14	3.27	-2.30	3.20	-2.76	3.07	-3.55	3.06	-3.48	4.40	-2.72	4.99	-3.54
15	3.51	-2.56	3.34	-2.93	3.18	-3.60	3.74	-2.84	4.71	-3.55	4.97	-4.13
16	3.49	-2.83	3.50	-2.93	3.37	-3.58	3.82	-3.37	4.72	-3.97	4.75	-4.53
17	3.28	-3.15	3.72	-2.88	3.75	-3.68	3.93	-3.97	4.99	-4.31	4.80	-4.69
18	3.59	-3.22	4.07	-3.01	3.85	-3.64	4.55	-4.08	4.66	-4.20	5.08	-4.41
19	3.64	-3.55	4.24	-3.03	4.12	-3.64	4.61	-4.01	4.56	-4.42	4.98	-3.09
20	4.42	-3.55	4.31	-3.07	4.21	-3.48	4.60	-4.12	4.69	-4.15	4.58	-3.13
21	4.77	-2.62	3.61	-3.39	4.10	-3.73	4.46	-3.90	4.53	-3.80	4.68	-2.36
22	4.44	-2.72	4.09	-3.56	3.97	-3.86	4.17	-3.86	4.25	-3.97	3.92	-3.12
23	3.71	-3.55	3.43	-3.43	3.87	-3.99	4.11	-4.23	3.91	-3.94	3.76	-3.10
24	3.77	-3.32	3.66	-4.10	3.80	-3.89	4.11	-4.09	3.82	-3.79	4.60	-1.28
25	3.36	-3.19	3.73	-3.45	3.77	-3.98	4.20	-3.98	4.13	-3.57	4.62	-1.70
26	3.42	-3.17	3.71	-3.45	4.09	-3.48	4.38	-3.29	4.49	-2.35	4.01	-2.73
27	3.39	-2.89	3.50	-3.77	4.11	-3.88	4.14	-3.55	4.47	-2.93	5.27	-2.45
28	3.45	-2.72	4.17	-3.22	4.41	-4.14	3.91	-4.14	4.38	-3.03	4.91	-1.58
29	3.65	-2.76	4.59	-2.49	4.74	-4.05	4.25	-4.12	4.55	-3.23	4.84	-2.59
30	3.75	-3.36	4.60	-3.65	5.52	-3.10	4.55	-3.86	4.30	-3.20	4.13	-2.60
31	—	—	4.59	-4.17	—	—	4.21	-4.04	4.13	-3.35	—	—
MONTH	4.77	-6.74	5.51	-4.81	5.52	-4.92	5.46	-4.23	4.99	-4.44	5.27	-4.69
YEAR	5.96	-6.74										

02226180 BRUNSWICK RIVER AT VILLAGE PIER AT ST. SIMONS ISLAND, GA.

LOCATION.--Lat 31°07'59", long 81°23'49", Glynn County, Hydrologic Unit 03070203, at downstream side of Village Pier, on St. Simons Island.
PERIOD OF RECORD.--May 1988 to current year.

GAGE-HEIGHT RECORDS

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).
EXTREMES FOR CURRENT PERIOD.--May 1988 to September 1988:. Maximum elevation recorded, 5.50 ft, Sept. 27; minimum elevation recorded, -5.27 ft, Aug. 29.

Water Year 1989: Maximum elevation recorded, 5.75 ft, March 9; minimum elevation recorded, -6.74 ft, April 7.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			—	—	4.47	-3.65	4.98	-3.67	4.13	-4.84	4.27	-3.23
2			—	—	4.44	-3.76	4.74	-3.52	4.08	-4.64	3.98	-3.05
3			—	—	5.20	-3.81	4.47	-3.37	4.35	-3.91	3.67	-2.89
4			—	—	4.78	-2.12	4.21	-3.39	4.15	-3.39	3.23	-2.90
5			—	—	4.74	-2.75	4.28	-3.03	3.95	-3.20	2.59	-3.47
6			—	—	4.22	-3.35	4.08	-2.45	3.55	-3.39	2.99	-2.91
7			—	—	3.59	-3.74	4.10	-2.81	3.56	-3.41	4.56	-1.81
8			—	—	3.86	-3.82	3.73	-3.58	3.51	-3.07	4.17	-2.32
9			—	—	3.49	-4.27	3.49	-3.87	3.73	-3.07	3.78	-2.75
10			—	—	4.25	-4.26	3.62	-3.91	3.55	-3.13	3.72	-3.18
11			—	—	4.61	-3.07	3.50	-3.98	3.80	-3.61	3.82	-2.86
12			—	—	4.53	-3.54	3.54	-4.15	3.77	-3.32	3.75	-2.75
13			—	—	4.33	-3.60	3.40	-4.15	3.87	-3.15	3.42	-2.91
14			—	—	4.09	-3.64	3.46	-4.03	3.28	-3.37	3.29	-2.95
15			—	—	3.97	-3.46	3.13	-3.74	2.90	-3.42	3.49	-2.82
16			—	—	3.95	-2.97	2.95	-3.62	2.58	-3.45	3.99	-1.98
17			—	—	3.58	-2.94	2.93	-3.62	2.77	-3.37	3.62	-2.00
18			—	—	3.25	-3.05	2.49	-3.57	2.68	-3.20	3.26	-2.33
19			—	—	3.07	-2.90	2.41	-3.25	2.56	-3.20	3.59	-1.99
20			—	—	2.99	-2.48	2.33	-3.12	2.46	-2.95	3.90	-2.23
21			—	—	3.00	-2.36	2.16	-3.20	3.04	-3.16	4.00	-2.96
22			—	—	2.96	-2.42	2.27	-3.26	3.67	-3.14	4.72	-2.81
23			—	—	2.93	-2.58	2.31-3.35	4.18	-2.50	4.97	-3.36	
24			—	—	3.11	-2.68	2.91	-3.60	4.29	-3.41	4.89	-4.15
25			—	—	3.88	-2.05	3.47	-3.27	4.46	-3.84	4.98	-4.70
26			—	—	4.07	-2.91	4.09	-3.58	4.75	-4.75	5.09	-4.40
27			—	—	4.67	-3.43	4.57	-4.01	4.92	-5.20	5.50	-3.59
28			3.85	-3.00	4.86	-2.78	4.70	-4.44	4.50	-4.62	5.20	-3.61
29			3.99	-3.67	4.69	-3.57	4.88	-4.82	4.10	-5.27	5.23	-2.72
30			4.37	-3.36	4.67	-4.30	4.76	-4.61	4.28	-4.93	4.62	-2.48
31			4.53	-3.54	—	—	4.44	-4.72	4.44	-4.01	—	—
MONTH			—	—	5.20	-4.30	4.98	-4.82	4.92	-5.27	5.50	-4.70

02226180 BRUNSWICK RIVER AT VILLAGE PIER AT ST. SIMONS ISLAND, GA.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.26	-2.01	3.73	-1.51	2.30	-2.45	2.56	-2.70	2.36	-3.20	2.29	-1.84
2	3.78	-2.04	2.96	-2.10	2.07	-2.71	2.59	-2.29	2.49	-3.85	3.17	-1.31
3	3.50	-1.95	2.95	-1.89	2.18	-3.17	3.20	-3.86	2.91	-4.36	3.81	-2.83
4	3.49	-2.00	3.31	-1.91	2.13	-2.89	2.97	-3.72	3.23	-4.38	3.58	-3.44
5	3.77	-1.32	3.36	-3.10	3.58	-2.61	3.77	-3.46	4.37	-4.23	4.00	-3.84
6	3.97	-1.25	2.92	-3.63	3.76	-3.28	4.19	-3.72	4.65	-4.37	4.22	-4.49
7	4.15	-1.04	2.86	-3.78	3.69	-3.28	3.92	-4.33	4.46	-4.91	4.99	-5.12
8	4.37	-1.22	3.12	-3.76	3.65	-3.73	4.21	-4.32	4.04	-5.17	5.28	-3.64
9	4.29	-1.73	3.42	-3.84	3.94	-3.97	4.22	-4.49	4.12	-4.50	5.75	-3.69
10	4.33	-2.04	3.87	-3.62	4.33	-3.72	4.65	-3.52	3.95	-4.44	5.73	-3.18
11	4.02	-2.48	3.62	-3.80	4.32	-3.60	4.59	-3.55	3.76	-4.18	5.14	-3.25
12	3.84	-3.23	4.26	-2.47	4.97	-2.54	4.19	-4.05	3.06	-3.92	4.82	-3.38
13	4.25	-2.85	4.02	-3.00	4.35	-3.66	3.58	-4.36	3.20	-3.62	4.21	-2.56
14	3.97	-2.38	3.64	-2.89	3.89	-3.41	4.14	-2.88	2.84	-3.66	3.69	-2.67
15	3.69	-2.15	3.68	-2.76	3.37	-3.62	3.64	-3.84	2.57	-3.74	3.10	-3.18
16	3.59	-2.24	3.84	-2.75	3.40	-3.22	2.96	-3.99	2.85	-3.76	2.71	-3.12
17	3.47	-2.08	3.21	-3.66	3.78	-4.07	3.52	-3.34	3.74	-3.60	3.09	-2.87
18	3.72	-2.11	3.69	-2.79	3.46	-3.90	3.66	-4.24	4.27	-1.92	3.19	-3.13
19	3.54	-2.56	4.24	-3.53	3.74	-4.26	3.37	-4.20	4.14	-2.60	3.53	-3.14
20	4.83	-1.95	4.36	-4.74	3.85	-4.27	3.67	-4.42	4.20	-2.92	4.14	-2.84
21	4.32	-3.40	4.06	-4.68	3.98	-4.28	4.22	-4.37	3.88	-3.60	3.36	-3.82
22	4.32	-3.80	4.76	-4.11	4.13	-4.50	4.70	-2.58	3.38	-3.87	4.30	-3.95
23	4.88	-3.92	5.17	-3.61	4.58	-4.00	4.41	-2.34	2.30	-4.65	4.43	-1.92
24	4.98	-3.90	4.98	-3.53	4.09	-3.97	4.26	-3.05	2.62	-4.66	3.59	-3.22
25	5.10	-4.77	4.48	-3.45	3.67	-4.10	3.54	-3.33	2.98	-3.11	3.41	-3.21
26	4.89	-4.16	4.28	-3.46	3.75	-3.36	2.88	-3.26	2.50	-3.26	3.18	-2.97
27	4.93	-3.83	3.68	-3.28	3.82	-2.80	2.54	-3.04	1.93	-2.77	2.90	-2.96
28	4.51	-3.16	1.89	-3.35	2.97	-3.58	2.77	-2.26	2.24	-3.12	2.64	-2.90
29	4.12	-2.93	3.24	-2.71	2.52	-2.81	2.71	-2.39	—	—	2.68	-2.68
30	4.30	-1.77	2.89	-2.18	2.77	-2.01	2.57	-2.53	—	—	2.65	-3.05
31	4.30	-1.02	—	—	2.64	-2.27	1.99	-2.64	—	—	2.29	-3.82
MONTH	5.10	-4.77	5.17	-4.74	4.97	-4.50	4.70	-4.49	4.65	-5.17	5.75	-5.12

02226180 BRUNSWICK RIVER AT VILLAGE PIER AT ST. SIMONS ISLAND, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.62	-3.44	3.78	-3.90	4.45	-4.51	5.15	-3.05	3.79	-4.40	3.81	-2.97
2	3.09	-3.76	4.00	-4.73	4.65	-4.91	4.90	-3.55	4.06	-4.03	3.44	-2.88
3	3.69	-4.42	4.69	-4.64	4.71	-4.89	4.55	-3.86	4.19	-3.56	3.37	-3.40
4	4.17	-5.03	5.28	-4.28	4.72	-4.60	4.40	-3.71	3.60	-2.99	3.82	-1.99
5	4.55	-5.55	5.24	-4.69	4.02	-4.35	3.91	-3.47	2.98	-3.42	3.44	-2.34
6	4.39	-5.89	4.90	-4.77	4.23	-4.49	3.05	-3.81	2.91	-3.53	3.61	-1.57
7	3.88	-6.74	4.58	-4.61	3.98	-3.80	2.54	-3.85	2.99	-2.78	3.82	-1.29
8	3.89	-5.25	4.50	-3.61	3.30	-3.70	2.41	-3.84	3.24	-2.37	4.02	-0.85
9	4.14	-4.72	3.69	-3.44	3.17	-3.89	2.38	-3.35	3.53	-1.55	3.72	-1.32
10	3.95	-3.43	3.12	-3.78	2.34	-3.84	2.52	-2.87	3.45	-1.56	4.09	-1.59
11	3.84	-2.54	2.58	-2.95	2.34	-3.21	2.55	-2.98	3.28	-1.77	3.89	-2.11
12	3.78	-1.80	3.23	-2.58	2.85	-2.83	2.70	-2.94	3.49	-2.05	4.34	-2.60
13	3.63	-2.03	2.77	-2.82	2.72	-3.02	2.70	-3.23	3.68	-2.33	4.90	-2.80
14	3.01	-2.31	2.84	-2.77	2.77	-3.55	2.70	-3.57	4.28	-2.78	4.92	-3.48
15	3.24	-2.63	3.01	-3.00	3.00	-3.56	3.53	-2.95	4.49	-3.50	4.85	-4.07
16	3.27	-2.86	3.22	-2.91	3.17	-3.48	3.57	-3.38	4.48	-3.96	4.52	-4.48
17	2.99	-3.16	3.53	-2.90	3.45	-3.69	3.69	-3.99	4.83	-4.26	4.55	-4.61
18	3.38	-3.21	3.84	-3.02	3.60	-3.63	4.37	-4.07	4.46	-4.13	4.82	-4.36
19	3.37	-3.56	4.01	-3.02	3.97	-3.66	4.45	-4.01	4.36	-4.36	4.82	-3.08
20	4.16	-3.53	4.14	-3.05	4.00	-3.51	4.35	-4.04	4.58	-4.10	4.41	-3.08
21	4.49	-2.57	3.42	-3.34	3.90	-3.68	4.24	-3.83	4.36	-3.76	4.59	-2.34
22	4.13	-2.72	3.91	-3.47	3.71	-3.81	3.94	-3.82	4.04	-3.89	3.74	-3.08
23	3.37	-3.52	3.24	-3.43	3.65	-3.94	3.88	-4.20	3.69	-3.92	3.56	-3.06
24	3.51	-3.33	3.46	-4.07	3.37	-3.83	3.89	-4.06	3.50	-3.83	4.46	-1.26
25	3.06	-3.17	3.50	-3.42	3.54	-3.96	3.85	-3.98	3.88	-3.48	4.38	-1.67
26	3.05	-3.21	3.43	-3.40	3.86	-3.45	4.16	-3.29	4.29	-2.36	3.68	-2.72
27	3.00	-2.94	3.23	-3.75	3.86	-3.81	3.86	-3.52	4.23	-2.92	4.99	-2.47
28	3.12	-2.72	3.95	-3.16	4.16	-4.10	3.62	-4.15	4.19	-3.04	4.67	-1.51
29	3.36	-2.81	4.27	-2.49	4.60	-4.03	3.93	-4.12	4.45	-3.23	4.44	-2.57
30	3.38	-3.35	4.31	-3.63	5.28	-3.09	4.27	-3.84	4.12	-3.19	3.85	-2.61
31	—	—	4.34	-4.16	—	—	3.97	-4.04	3.95	-3.29	—	—
MONTH	4.55	-6.74	5.28	-4.77	5.28	-4.91	5.15	-4.20	4.83	-4.40	4.99	-4.61
YEAR	5.75	-6.74										

02226475 SATILLA RIVER AT WALTERTOWN, GA.

LOCATION.--Lat 31°18'17", long 82°23'33", Ware County, Hydrologic Unit 03070201, at county highway bridge at Waltertown, and 6 mi north of Waycross.

PERIOD OF RECORD.--August 1973 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
12...	0900	375	63	63	6.10	5.90	16.0	20.0	7.7	78
NOV										
16...	0920	122	68	74	6.20	6.20	17.5	19.5	7.8	81
DEC										
08...	1150	52	75	80	6.40	6.50	10.5	22.0	9.8	87
JAN										
11...	0945	80	101	106	6.58	6.80	14.0	10.5	8.1	77
FEB										
08...	1050	61	95	93	6.82	6.70	17.0	14.5	5.9	60
MAR										
09...	1205	360	76	78	6.33	6.10	11.0	6.5	9.2	83
APR										
12...	0835	116	71	71	6.66	6.40	13.5	11.0	8.5	81
MAY										
11...	0815	142	69	69	6.31	6.40	18.5	20.5	7.8	83
JUN										
14...	1005	34	53	54	6.55	6.40	28.5	31.0	5.6	72
JUL										
12...	0825	212	72	73	6.40	6.10	28.0	29.0	5.7	73
AUG										
22...	0745	425	61	62	5.53	5.20	24.5	29.5	5.8	70
SEP										
26...	0950	38	57	58	--	5.90	21.0	27.0	5.9	66

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
12...	180	6.0	1.3	50	6	0.060	0.030	0.190	26
NOV									
16...	120	4.0	1.3	220	6	0.100	0.140	0.190	20
DEC									
08...	90	5.0	1.4	80	8	0.050	<0.030	0.130	15
JAN									
11...	--	4.0	1.2	230	12	--	0.100	0.150	16
FEB									
08...	110	4.0	1.0	40	11	0.120	0.030	0.200	15
MAR									
09...	120	6.0	2.6	230	11	0.040	<0.030	0.140	17
APR									
12...	80	7.0	1.6	110	8	0.140	<0.030	0.210	18
MAY									
11...	120	7.0	1.4	80	7	0.140	<0.030	0.170	21
JUN									
14...	60	5.0	1.3	30	6	0.060	<0.030	0.110	11
JUL									
12...	240	8.0	1.5	45	6	0.110	<0.030	0.210	33
AUG									
22...	300	9.0	1.4	490	2	0.050	0.100	0.110	28
SEP									
26...	180	5.0	0.9	50	3	0.100	0.040	0.210	--

02226500 SATILLA RIVER NEAR WAYCROSS, GA.

LOCATION.--Lat 31°14'17", long 82°19'29", Ware-Pierce County line, Hydrologic Unit 03070201, on downstream side of pier near center span of bridge on State Highway 38, 3 mi northeast of Waycross, and 16 mi upstream from Alabaha River.

DRAINAGE AREA.--1,200 mi^2, approximately.

PERIOD OF RECORD.--April 1937 to current year.

REVISED RECORDS.--WSP 952: 1939. WSP 1624: Drainage area. WDR GA-87-1: 1986.

GAGE.--Water-stage recorder. Datum of gage is 66.43 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1952, nonrecording gage at site 300 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Records of chemical analyses for the water years 1968-73 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--52 years, 1,031 ft^3/s, 11.67 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft^3/s, Apr. 4, 1948, gage height, 22.4 ft, from floodmark; minimum 6.0 ft^3/s, Nov. 3, 4, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, that of Apr. 4, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 4	1600	*1,280	*10.66

Minimum discharge, 20 ft^3/s, June 5-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	43	68	74	75	278	413	147	24	342	830	886
2	209	44	64	71	77	286	372	154	24	381	667	936
3	260	43	61	69	77	278	322	134	23	350	420	1040
4	300	142	59	68	74	271	288	170	22	275	279	1260
5	258	112	57	71	69	288	325	253	21	223	207	1220
6	244	99	54	75	66	323	345	337	20	189	163	1070
7	239	108	53	74	64	369	294	364	36	194	137	907
8	258	118	56	74	66	419	231	325	45	248	120	722
9	345	131	56	80	64	465	189	262	327	286	141	535
10	446	152	56	84	63	485	163	219	197	272	142	401
11	478	159	68	83	61	454	152	180	100	245	140	319
12	412	164	76	80	59	391	134	151	62	223	183	260
13	321	168	65	76	57	333	131	133	43	195	277	218
14	253	162	63	72	55	285	163	120	42	164	360	191
15	209	152	65	68	54	249	253	109	42	138	385	171
16	179	143	68	68	52	221	361	99	40	138	374	152
17	157	134	70	65	49	203	477	87	46	119	339	135
18	140	124	72	62	46	182	583	76	109	134	293	119
19	127	115	82	60	45	163	682	66	147	296	327	105
20	114	108	92	59	44	149	781	57	152	349	428	93
21	103	100	98	59	51	141	913	50	151	312	484	87
22	93	93	100	69	84	139	1030	46	129	300	478	78
23	83	91	100	81	71	191	1000	41	155	258	399	75
24	76	86	99	87	75	200	800	40	173	290	326	69
25	69	83	96	93	90	181	560	36	159	286	288	76
26	63	80	91	95	114	189	380	33	175	281	284	74
27	58	78	87	92	155	212	282	32	176	291	369	97
28	54	83	84	84	227	252	222	31	180	376	470	131
29	51	76	81	78	—	320	181	29	222	518	606	145
30	48	71	78	78	—	401	152	27	288	680	722	161
31	45	—	76	84	—	433	—	25	—	814	835	—
TOTAL	5894	3262	2295	2333	2084	8751	12179	3833	3330	9167	11473	11733
MEAN	190	109	74.0	75.3	74.4	282	406	124	111	296	370	391
MAX	478	168	100	95	227	485	1030	364	327	814	835	1260
MIN	45	43	53	59	44	139	131	25	20	119	120	69
CFSM	.16	.09	.06	.06	.06	.24	.34	.10	.09	.25	.31	.33
IN.	.18	.10	.07	.07	.06	.27	.38	.12	.10	.28	.36	.36

CAL YR 1988	TOTAL	273765	MEAN	748	MAX	6880	MIN	14	CFSM	.62	IN 8.49
WTR YR 1989	TOTAL	76334	MEAN	209	MAX	1260	MIN	20	CFSM	.17	IN 2.37

02226582 SATILLA RIVER NEAR HOBOKEN, GA.

LOCATION.–Lat 31°13'00", long 82°09'45", Brantley-Pierce County line, Hydrologic Unit 03070201, at bridge on State Highway 121, 3 mi northeast of Hoboken.

DRAINAGE AREA.–1,350 mi², approximately.

PERIOD OF RECORD.–August 1974 to current year.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 12...	1040	468	71	73	6.10	6.10	17.0	22.5	7.6	78
NOV 16...	1205	250	78	78	5.90	5.90	18.0	28.0	7.1	75
DEC 08...	1355	99	102	105	6.50	6.80	12.0	23.0	10.2	94
JAN 11...	1145	124	112	111	6.67	6.90	15.0	12.0	8.1	79
FEB 08...	1250	103	107	102	6.83	6.70	18.0	14.0	6.8	71
MAR 09...	1430	420	89	86	6.41	6.30	12.0	6.5	8.7	80
APR 12...	1040	225	73	75	6.36	6.10	13.5	14.0	7.8	74
MAY 11...	1045	225	82	82	6.29	6.60	20.5	25.0	7.0	78
JUN 14...	1200	114	85	88	6.20	6.60	27.0	32.0	5.3	66
JUL 12...	1025	270	68	69	5.94	5.70	28.0	32.0	4.9	62
AUG 22...	1020	500	68	71	6.21	5.80	26.0	33.5	5.6	69
SEP 26...	1150	150	86	86	--	6.10	23.0	31.0	5.3	62

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 12...	200	7.0	1.2	50	5	12	0.140	0.070	0.250	30
NOV 16...	160	3.0	1.2	20	5	4	0.270	0.030	0.330	22
DEC 08...	120	3.0	1.4	170	12	<1	0.690	0.030	0.280	12
JAN 11...	--	3.0	1.2	110	13	4	0.560	0.070	0.270	15
FEB 08...	120	4.0	1.2	80	12	<1	0.440	0.060	0.290	14
MAR 09...	140	6.0	2.5	230	7	4	0.120	0.040	0.190	17
APR 12...	130	7.0	1.5	130	6	<1	0.270	<0.030	0.200	20
MAY 11...	200	5.0	1.5	70	9	4	0.320	0.040	0.230	22
JUN 14...	130	8.0	1.6	790	8	4	0.390	0.090	0.520	17
JUL 12...	280	8.0	1.9	40	5	6	0.210	0.030	0.240	31
AUG 22...	150	8.0	1.5	110	4	7	0.190	0.150	0.230	35
SEP 26...	180	6.0	1.3	90	8	3	0.370	0.120	0.400	--

02227500 LITTLE SATILLA RIVER NEAR OFFERMAN, GA.

LOCATION.--Lat 31°27'04", long 82°03'17", Pierce-Wayne County line, Hydrologic Unit 03070202, at right bank pier of steel truss span of Seaboard Coast Line Railroad bridge, 1,500 ft downstream from bridge on State Highway 38, 4 mi northeast of Offerman, and 16 mi upstream from mouth.

DRAINAGE AREA.--646 mi^2.

PERIOD OF RECORD.--January 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 58.00 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1952, water-stage recorder at site 1,500 ft upstream and Nov. 8, 1952, to Sept. 30, 1975, water-stage recorder at present site at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: July 25-29. Records good except those less than 20 ft^3/s, and those for the period of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--38 years, 519 ft^3/s, 10.91 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft^3/s Sept. 29, 1953, gage height, 14.5 ft, present datum; no flow Oct. 10 to Nov. 14, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 5	1400	*3,330	*10.18	No other peak greater than base discharge.			

Minimum discharge, 0.45 ft^3/s, June 5, 6, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	16	24	40	40	69	73	13	.72	471	53	1720
2	77	15	21	40	44	115	63	14	.67	646	40	2810
3	124	15	20	37	44	158	54	12	.61	806	28	3100
4	362	61	18	36	43	163	48	11	.54	775	21	2880
5	413	121	17	32	41	153	55	15	.48	765	23	3160
6	289	139	20	31	38	149	51	89	.55	817	21	2930
7	215	110	14	31	34	157	39	117	.69	804	18	2170
8	187	92	12	30	32	143	28	111	.83	833	12	1600
9	176	73	12	29	29	131	20	87	2.7	709	29	1180
10	166	61	13	33	26	117	17	71	1.4	477	72	868
11	139	50	17	35	26	98	38	62	1.1	303	102	656
12	102	43	43	35	24	82	48	56	.97	224	88	480
13	73	40	59	34	22	71	51	50	.83	172	79	344
14	52	37	60	35	21	64	63	40	.71	135	231	289
15	39	35	58	34	20	59	108	30	.60	114	684	250
16	30	33	59	33	19	54	183	20	.53	109	818	209
17	23	32	63	31	17	55	209	12	.60	107	689	177
18	18	29	67	30	15	56	212	6.6	1.9	86	599	130
19	14	30	67	29	14	73	184	4.0	4.1	98	387	98
20	13	29	65	27	14	62	157	2.7	4.1	113	235	94
21	12	27	61	25	16	49	151	1.9	4.3	112	201	94
22	11	26	64	24	36	41	143	1.5	62	165	195	144
23	17	27	82	27	60	52	130	1.2	403	206	236	198
24	17	29	95	27	71	80	117	1.1	472	258	348	212
25	16	28	95	26	70	108	99	1.0	450	260	469	192
26	15	27	82	25	68	132	75	.94	336	240	642	174
27	15	26	67	24	67	121	53	.87	192	190	595	154
28	15	29	56	22	65	100	34	.89	193	140	625	138
29	15	28	48	21	—	85	22	.88	254	110	776	148
30	15	26	43	20	—	82	15	.87	376	89	913	174
31	15	—	41	34	—	85	—	.80	—	70	950	—
TOTAL	2741	1334	1463	937	1016	2964	2540	835.25	2766.93	10404	10179	26773
MEAN	88.4	44.5	47.2	30.2	36.3	95.6	84.7	26.9	92.2	336	328	892
MAX	413	139	95	40	71	163	212	117	472	833	950	3160
MIN	11	15	12	20	14	41	15	.80	.48	70	12	94
CFSM	.14	.07	.07	.05	.06	.15	.13	.04	.14	.52	.51	1.38
IN.	.16	.08	.08	.05	.06	.17	.15	.05	.16	.60	.59	1.54

CAL YR 1988	TOTAL	94033.17	MEAN	257	MAX	3600	MIN	.04	CFSM	.40	IN	5.41
WTR YR 1989	TOTAL	63953.18	MEAN	175	MAX	3160	MIN	.48	CFSM	.27	IN	3.68

02228000 SATILLA RIVER AT ATKINSON, GA.
(National Stream-Quality Accounting Network station)

LOCATION.–Lat 31°13'16", long 81°52'03", Brantley County, Hydrologic Unit 03070201, on left bank piling 25 ft upstream from bridge on U.S. Highway 84, 400 ft downstream from Seaboard Coast Line Railroad bridge, and 1 mi west of Atkinson.

DRAINAGE AREA.–2,790 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–March 1930 to current year. Monthly discharge only for March 1930, published in WSP 1304.

REVISED RECORDS.–WSP 1504: 1932. WSP 1624: Drainage area.

GAGE.–Water-stage recorder. Datum of gage is 14.79 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 6, 1933 and Nov. 21, 1961, to Sept. 30, 1964, nonrecording gage at same site and datum.

REMARKS.–Estimated daily discharges: July 20-31. Records good, except those of no gage-height record, July 20-31, which are fair.

AVERAGE DISCHARGE.–59 years, 2,253 ft^3/s, 10.97 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 68,100 ft^3/s, Apr. 6, 1948, gage height, 23.9 ft; minimum daily, 21 ft^3/s, Nov. 2-5, 7-13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known since at least 1862, 27.2 ft in September 1929, from information by Georgia Department of Transportation; discharge, 110,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 5,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 9	1700	*5,410	*12.93

Minimum daily discharge, 48 ft^3/s, June 5, 6.

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	778	177	208	236	182	248	507	615	70	852	767	2000
2	670	170	208	227	181	262	548	538	64	959	736	2190
3	639	164	204	220	193	304	589	465	57	1100	737	2440
4	745	203	199	213	204	375	609	413	51	1240	762	2830
5	874	217	194	208	206	456	597	389	48	1390	793	3350
6	1050	257	189	205	204	516	560	375	48	1560	788	4020
7	1170	378	185	201	198	545	517	376	50	1650	711	4660
8	1190	474	182	196	188	561	488	425	52	1650	589	5150
9	1100	490	179	192	176	579	471	492	111	1590	484	5370
10	975	458	174	190	169	594	450	531	127	1490	463	5350
11	864	412	177	188	163	610	432	528	190	1350	650	5030
12	787	369	184	190	159	626	399	487	318	1160	839	4450
13	744	342	187	194	156	638	376	435	383	930	963	3760
14	721	324	205	195	153	642	370	387	354	754	971	3030
15	698	311	249	197	149	630	380	347	280	635	934	2340
16	656	300	276	196	145	598	395	309	217	568	1040	1760
17	594	291	281	192	139	553	433	275	175	539	1260	1360
18	528	278	276	188	135	507	528	244	143	527	1480	1120
19	467	266	272	184	132	465	623	218	121	560	1620	941
20	415	256	271	181	129	431	696	196	119	530	1620	791
21	374	243	271	175	129	413	752	176	126	590	1470	671
22	338	233	270	173	136	388	799	160	207	740	1240	601
23	307	233	270	171	140	381	845	144	292	920	1060	546
24	283	225	270	168	146	375	885	133	370	1120	976	530
25	261	216	277	167	179	367	921	122	542	1290	991	555
26	244	214	286	171	218	410	955	113	713	1430	1080	573
27	231	214	291	176	238	475	979	104	844	1510	1180	559
28	217	221	289	179	244	509	969	99	878	1490	1330	535
29	205	209	274	183	—	505	887	92	839	1340	1520	526
30	193	207	258	185	—	491	746	84	847	1090	1680	540
31	184	—	246	186	—	493	—	77	—	905	1810	—
TOTAL	18502	8352	7302	5927	4791	14947	18706	9349	8636	33459	32544	67578
MEAN	597	278	236	191	171	482	624	302	288	1079	1050	2253
MAX	1190	490	291	236	244	642	979	615	878	1650	1810	5370
MIN	184	164	174	167	129	248	370	77	48	527	463	526
CFSM	.21	.10	.09	.07	.06	.17	.22	.11	.10	.39	.38	.81
IN.	.25	.11	.10	.08	.06	.20	.25	.12	.12	.45	.43	.90

CAL YR 1988	TOTAL	530068	MEAN	1448	MAX	11600	MIN	38	CFSM	.52	IN	7.07
WTR YR 1989	TOTAL	230093	MEAN	630	MAX	5370	MIN	48	CFSM	.23	IN	3.07

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to September 1981.
WATER TEMPERATURES: November 1974 to September 1981.
REMARKS.--Laboratory analyses with the analyzing agency codes 80020 and 84213 are performed by the U.S. Geological Survey. Laboratory analyses with the analyzing agency code 81341 are performed by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, Dissolved Oxygen, and Total Alkalinity are by the U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 159 microsiemens Nov. 7, 1978; minimum recorded, 30 microsiemens Mar. 16, 1977, Sept. 28, 1979, Mar. 20, 21, 1980.
WATER TEMPERATURES: Maximum, 33.5°C July 11-12, 1977, Aug. 4, 1980; minimum recorded, 4.0°C Jan. 13, 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)
OCT							
27...	1400	80020	229	76	75	6.30	7.00
27...	1410	81341	229	76	75	6.30	6.10
JAN							
10...	1400	80020	190	83	86	6.59	7.50
10...	1410	81341	190	83	87	6.59	6.70
MAY							
04...	1330	80020	411	69	73	6.31	6.40
04...	1340	81341	411	69	69	6.31	6.50
AUG							
30...	1330	80020	1700	55	58	4.71	5.00
30...	1340	81341	1700	55	59	4.71	4.40

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	ALKA- LINITY WAT.DIS FET LAB CACO3 (MG/L)
OCT									
27...	80020	19.0	25.0	7.5	80	5	4	--	7.0
27...	81341	19.0	25.0	7.5	80	--	--	6	--
JAN									
10...	80020	15.0	19.0	7.7	75	13	11	--	9.0
10...	81341	15.0	19.0	7.7	75	--	--	8	--
MAY									
04...	80020	24.0	25.0	6.1	72	13	11	--	--
04...	81341	24.0	25.0	6.1	72	--	--	8	--
AUG									
30...	80020	27.0	32.5	5.0	62	1	1	--	2.0
30...	81341	27.0	32.5	5.0	62	--	--	1	--

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CACO3)
OCT								
27...	80020	--	4.2	--	--	16	79	17
27...	81341	160	5.0	1.6	<20	--	--	--
JAN								
10...	80020	--	2.4	--	--	21	300	17
10...	81341	140	3.0	1.3	<20	--	--	--
MAY								
04...	80020	--	4.8	--	--	14	170	15
04...	81341	240	6.0	1.3	20	--	--	--
AUG								
30...	80020	--	3.3	--	--	32	2400	12
30...	81341	240	5.0	0.8	<20	--	--	--

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)
OCT							
27...	80020	3.2	2.1	7.2	45	0.8	2.2
JAN							
10...	80020	3.3	2.1	8.9	49	0.9	2.8
MAY							
04...	80020	2.7	1.9	6.5	44	0.7	2.7
AUG							
30...	80020	2.3	1.4	4.9	44	0.6	1.8

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)
OCT								
27...	80020	10	0.10	11	88	62	54.4	0.12
JAN								
10...	80020	14	0.10	8.6	75	70	38.5	0.10
MAY								
04...	80020	12	0.10	7.2	83	47	92.1	0.11
AUG								
30...	80020	8.7	<0.10	9.4	93	33	426	0.13

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DISSOLVED (MG/L AS P)	PHOSPHOROUS ORTHO, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
27...	80020	<0.010	--	0.230	<0.010	0.020	--	0.70	0.110	0.050	0.030	--
27...	81341	--	0.470	--	<0.030	--	--	--	0.170	--	--	18
JAN												
10...	80020	<0.010	--	0.290	0.030	0.040	0.77	0.80	0.120	0.100	0.080	--
10...	81341	--	0.340	--	<0.030	--	--	--	0.140	--	--	19
MAY												
04...	80020	<0.010	--	0.170	0.050	0.070	0.65	0.70	0.160	0.090	0.080	--
04...	81341	--	0.180	--	0.050	--	--	--	0.150	--	--	22
AUG												
30...	80020	0.010	--	<0.100	0.030	0.040	0.97	1.0	0.080	0.060	0.050	--
30...	81341	--	0.060	--	<0.030	--	--	--	0.090	--	--	38

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT											
27...	80020	270	<1	25	0.8	<1	<1	<3	1	750	<5
JAN											
10...	80020	250	<1	21	<0.5	2	5	<3	1	540	<5
MAY											
04...	80020	320	<1	24	<0.5	<1	<1	<3	2	600	<5
AUG											
30...	80020	840	<1	29	<0.5	<1	2	<3	2	1300	1

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT											
27...	80020	<4	23	<0.1	<10	<1	<1	<1.0	23	<6	10
JAN											
10...	80020	<4	17	<0.1	<10	2	<1	<1.0	22	<6	12
MAY											
04...	80020	<4	35	<0.1	<10	7	<1	<1.0	19	<6	17
AUG											
30...	80020	<4	44	0.1	<10	2	<1	<1.0	16	<6	14

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT							
27...	1405	84213	229	19.0	7	4.3	81
JAN							
10...	1405	84213	190	15.0	9	4.6	76
MAY							
04...	1335	84213	411	24.0	11	12	79
AUG							
30...	1335	84213	1700	27.0	10	46	91

02228500 NORTH PRONG ST MARYS RIVER AT MONIAC, GA.

LOCATION.–Lat 30°31'03", long 82°13'50", in NW sec. 8, T.1 N., R. 21 E., Baker County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, near right bank at upstream side of bridge on Florida Highway 2 and Georgia Highway 94, 0.2 mi upstream from Georgia Southern & Florida Railway bridge, 0.4 mi west of Moniac, 1.0 mi downstream from Moccasin Creek, and 122 mi upstream from mouth of St Marys River.

DRAINAGE AREA.–160 mi^2, approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

PERIOD OF RECORD.–January 1921 to December 1923 (published as St Marys River at Moniac), January 1927 to June 1930, July 1932 to June 1934, October 1950 to current year.

REVISED RECORDS.–WSP 1234: Drainage area.

GAGE.–Nonrecording gage. Datum of gage is 89.40 ft above National Geodetic Vertical Datum of 1929. January 1921 to June 1934, nonrecording gage at site 800 ft downstream at datum 3.22 ft higher. Oct. 3, 1950 to Oct. 17, 1988, water-stage recorder at present site and datum.

REMARKS.–Estimated daily discharges: Feb. 18-27, Apr. 21-24, May 29 to June 8, Aug.4-8. Records good, except those for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.–44 years (water years 1922-23, 1928-29, 1933, 1951-89), 156 ft^3/s, 13.24 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 11,600 ft^3/s Apr. 5, 1973, gage height, 22.98 ft; no flow for many days in some years; minimum gage height, 3.62 ft, June 26, 1955.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, 251 ft^3/s, Sept. 6, gage height, 8.68 ft, from graph based on gage readings; minimum daily, 0.01 ft^3/s, June 5-8; minimum gage height, 4.10 ft, June 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	1.6	18	15	8.9	7.5	26	5.5	.25	3.2	42	350
2	14	1.5	16	24	8.3	17	23	4.9	.15	3.7	40	33
3	17	1.4	15	35	8.0	37	22	4.5	.05	2.7	38	52
4	40	3.9	13	31	7.5	35	20	4.1	.03	2.0	35	75
5	39	26	12	29	7.0	32	19	3.7	.01	1.7	32	145
6	35	30	11	27	6.5	28	17	3.2	.01	2.3	30	251
7	30	22	9.8	26	6.2	25	16	3.0	.01	3.0	27	140
8	26	19	8.6	25	5.8	22	14	2.7	.01	7.5	24	133
9	22	15	8.0	23	5.5	18	13	2.5	.10	16	22	127
10	19	12	7.5	22	5.1	16	12	2.3	.30	27	19	117
11	17	11	13	21	4.9	15	11	3.0	.80	35	17	106
12	14	10	24	20	4.5	14	11	2.7	.65	29	14	97
13	12	9.5	31	19	4.3	13	10	2.6	.50	24	13	87
14	10	8.6	33	17	3.9	11	12	2.4	.45	17	17	72
15	5.1	8.3	31	17	3.5	11	14	2.2	.20	22	17	60
16	4.5	7.8	29	15	3.2	9.8	12	2.0	.10	29	17	50
17	7.5	7.0	27	15	3.0	9.8	11	1.8	.25	35	15	39
18	6.5	6.7	25	13	2.8	8.9	10	1.7	1.4	42	14	36
19	5.8	6.5	24	12	2.7	8.3	10	1.5	7.5	43	19	32
20	5.3	6.2	22	11	2.6	7.8	9.2	1.4	8.6	49	28	29
21	4.9	6.0	21	9.8	2.5	7.2	9.0	1.4	6.0	52	33	26
22	4.3	6.2	20	9.2	8.0	6.7	8.8	1.3	5.3	60	37	24
23	3.9	19	19	9.5	7.6	11	8.6	1.1	4.3	72	38	29
24	3.5	28	18	10	7.2	55	8.5	.95	4.3	69	37	46
25	3.0	24	16	12	6.6	61	8.4	.90	3.4	65	35	62
26	2.7	24	15	12	6.2	53	8.3	.80	2.7	61	34	74
27	2.6	23	14	12	5.7	44	7.8	.70	2.0	57	36	93
28	2.3	22	13	12	6.2	36	7.0	.65	1.4	56	35	107
29	2.0	20	12	11	—	31	6.5	.55	1.3	52	38	155
30	1.9	19	11	10	—	28	6.0	.45	2.0	50	35	190
31	1.7	—	12	9.5	—	32	—	.35	—	46	34	—
TOTAL	376.5	405.2	548.9	534.0	154.2	711.0	371.1	66.85	54.07	1034.1	872	2522
MEAN	12.1	13.5	17.7	17.2	5.51	22.9	12.4	2.16	1.80	33.4	28.1	84.1
MAX	40	30	33	35	8.9	61	26	5.5	8.6	72	42	251
MIN	1.7	1.4	7.5	9.2	2.5	6.7	6.0	.35	.01	1.7	13	24
CFSM	.08	.08	.11	.11	.03	.14	.08	.01	.01	.21	.18	.53
IN.	.09	.09	.13	.12	.04	.17	.09	.02	.01	.24	.20	.59

CAL YR 1988	TOTAL	33848.69	MEAN	92.5	MAX	1980	MIN	.00	CFSM	.58	IN. 7.87
WTR YR 1989	TOTAL	7649.92	MEAN	21.0	MAX	251	MIN	.01	CFSM	.13	IN. 1.78

02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.

LOCATION.–Lat 30°21'31", long 82°04'54", in NW sec. 2, T.2 S., R.22 E., Baker County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, on right bank 200 ft downstream from site of former Stokes Bridge, 1 mi downstream from confluence of North and South Prongs, 6 mi northeast of Macclenny, and 100 mi upstream from mouth.

DRAINAGE AREA.–700 mi^2, approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–October 1926 to current year.

REVISED RECORDS.–WSP 1082: 1928(M), 1945(M). WSP 1142: 1928, 1945. WSP 1434: 1927. WSP 1905: Drainage area.

GAGE.–Water-stage recorder. Datum of gage is 40.00 ft above National Geodetic Vertical Datum of 1929 (levels by Mees and Mees). Prior to Feb. 21, 1939, nonrecording gage and Feb. 21, 1939, to Aug. 15, 1948, water-stage recorder, at site of former bridge 200 ft upstream at same datum.

REMARKS.–Records good.

AVERAGE DISCHARGE.–63 years, 670 ft^3/s, 13.00 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 28,100 ft^3/s, Sept. 25, 1947; maximum gage height, 23.25 ft, Sept. 13, 1964, from floodmark; minimum discharge observed, 12 ft^3/s, May 22, 1932; minimum gage height observed, 0.04 ft, June 4, 5, 1927.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 30	1600	*1,840	*11.20

Minimum discharge, 21 ft^3/s, June 4, 5, gage height, 0.78 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	343	74	122	85	60	57	115	48	25	219	248	261
2	314	72	115	84	62	59	106	65	24	233	283	254
3	313	70	108	85	59	80	93	81	22	182	448	335
4	466	69	102	95	56	122	83	74	22	134	436	783
5	595	79	97	93	55	124	77	62	22	105	339	1550
6	517	102	92	88	53	109	74	52	28	83	245	1800
7	437	121	89	85	52	96	70	45	29	92	183	1810
8	375	116	86	82	51	89	66	41	34	208	148	1580
9	326	105	83	79	51	81	62	38	41	250	126	1300
10	290	96	82	77	49	75	60	50	62	240	138	1010
11	262	91	85	75	47	70	60	209	89	189	149	797
12	240	86	130	74	46	66	61	281	88	149	140	644
13	219	82	192	72	45	61	64	212	67	117	120	531
14	201	80	186	71	45	57	62	156	52	92	307	461
15	187	78	169	70	44	54	68	123	42	78	488	468
16	173	75	156	68	43	52	112	99	36	72	454	610
17	162	73	145	66	42	49	139	81	35	97	327	792
18	151	71	137	64	41	47	118	68	34	151	231	913
19	141	70	129	62	41	45	93	58	33	161	268	1050
20	132	68	122	60	41	43	79	51	46	161	340	843
21	125	66	117	60	42	41	79	45	62	166	336	658
22	118	76	113	68	59	41	102	41	57	267	325	542
23	111	163	108	86	103	69	108	39	50	387	290	484
24	104	241	105	92	103	266	92	37	46	409	276	521
25	98	200	101	83	81	334	77	35	62	358	500	636
26	93	168	98	75	69	274	66	33	63	282	733	725
27	88	150	94	70	63	219	58	32	56	216	640	684
28	84	140	90	67	59	184	52	31	47	170	528	744
29	81	136	88	64	—	155	47	29	50	137	457	1490
30	78	131	87	61	—	134	46	27	114	178	375	1870
31	76	—	86	60	—	121	—	26	—	254	283	—
TOTAL	6900	3149	3514	2321	1562	3274	2389	2269	1438	5837	10161	26146
MEAN	223	105	113	74.9	55.8	106	79.6	73.2	47.9	188	328	872
MAX	595	241	192	95	103	334	139	281	114	409	733	1870
MIN	76	66	82	60	41	41	46	26	22	72	120	254
CFSM	.32	.15	.16	.11	.08	.15	.11	.10	.07	.27	.47	1.25
IN.	.37	.17	.19	.12	.08	.17	.13	.12	.08	.31	.54	1.39

CAL YR 1988	TOTAL	252745	MEAN	691	MAX	8700	MIN	21	CFSM	.99	IN. 13.43
WTR YR 1989	TOTAL	68960	MEAN	189	MAX	1870	MIN	22	CFSM	.27	IN. 3.66

02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.--Continued

GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.16	1.77	2.34	1.91	1.60	1.55	2.08	1.27	.86	3.06	3.28	3.37
2	3.98	1.74	2.25	1.91	1.62	1.58	1.99	1.51	.84	3.17	3.51	3.32
3	3.97	1.71	2.17	1.92	1.58	1.85	1.86	1.72	.81	2.75	4.51	3.82
4	4.91	1.70	2.11	2.03	1.54	2.34	1.74	1.62	.79	2.28	4.45	6.21
5	5.65	1.83	2.05	2.01	1.51	2.37	1.67	1.47	.81	1.98	3.87	9.26
6	5.23	2.11	2.00	1.95	1.48	2.20	1.63	1.32	.93	1.74	3.25	10.05
7	4.75	2.33	1.96	1.91	1.46	2.05	1.58	1.22	.95	1.84	2.76	10.08
8	4.37	2.26	1.93	1.87	1.45	1.97	1.52	1.16	1.04	2.96	2.43	9.37
9	4.06	2.14	1.90	1.84	1.45	1.87	1.47	1.10	1.16	3.29	2.21	8.38
10	3.81	2.05	1.88	1.82	1.42	1.79	1.45	1.28	1.46	3.22	2.33	7.26
11	3.62	1.98	1.91	1.79	1.39	1.73	1.44	2.93	1.81	2.81	2.44	6.33
12	3.45	1.92	2.42	1.77	1.37	1.67	1.46	3.50	1.79	2.44	2.35	5.57
13	3.29	1.88	3.05	1.76	1.36	1.61	1.49	3.00	1.53	2.11	2.14	4.98
14	3.13	1.85	2.99	1.74	1.36	1.55	1.46	2.51	1.33	1.84	3.61	4.59
15	2.99	1.82	2.83	1.73	1.34	1.51	1.55	2.17	1.17	1.68	4.74	4.63
16	2.87	1.78	2.70	1.70	1.32	1.46	2.06	1.92	1.07	1.60	4.54	5.39
17	2.75	1.75	2.59	1.67	1.31	1.42	2.34	1.72	1.06	1.89	3.80	6.30
18	2.64	1.73	2.50	1.64	1.30	1.39	2.12	1.55	1.03	2.46	3.15	6.87
19	2.53	1.71	2.41	1.62	1.30	1.36	1.85	1.42	1.01	2.56	3.40	7.45
20	2.44	1.69	2.34	1.59	1.30	1.33	1.69	1.31	1.24	2.56	3.88	6.55
21	2.36	1.66	2.28	1.59	1.31	1.29	1.69	1.22	1.47	2.61	3.86	5.64
22	2.28	1.79	2.23	1.70	1.57	1.28	1.95	1.16	1.40	3.40	3.79	5.04
23	2.20	2.74	2.18	1.93	2.12	1.62	2.02	1.12	1.29	4.16	3.57	4.72
24	2.13	3.45	2.14	2.00	2.12	3.42	1.83	1.09	1.23	4.29	3.47	4.97
25	2.06	3.11	2.10	1.90	1.87	3.85	1.66	1.05	1.47	3.99	4.77	5.64
26	2.00	2.81	2.06	1.80	1.71	3.45	1.52	1.02	1.48	3.51	6.02	6.17
27	1.95	2.63	2.02	1.73	1.63	3.07	1.41	1.00	1.38	3.04	5.55	6.02
28	1.90	2.53	1.98	1.68	1.57	2.77	1.33	.98	1.24	2.64	4.96	6.40
29	1.86	2.48	1.96	1.64	—	2.50	1.25	.94	1.28	2.32	4.56	9.70
30	1.82	2.42	1.94	1.61	—	2.29	1.23	.91	2.06	2.69	4.09	11.11
31	1.80	—	1.92	1.59	—	2.15	—	.88	—	3.32	3.52	—
MEAN	3.13	2.11	2.23	1.79	1.51	2.01	1.68	1.52	1.23	2.72	3.70	6.51
MAX	5.65	3.45	3.05	2.03	2.12	3.85	2.34	3.50	2.06	4.29	6.02	11.11
MIN	1.80	1.66	1.88	1.59	1.30	1.28	1.23	.88	.79	1.60	2.14	3.32

CAL YR 1988	MEAN	4.39	MAX	17.13	MIN	.88
WTR YR 1989	MEAN	2.52	MAX	11.11	MIN	.79

02231220 ST MARYS RIVER AT BOULOGNE, FLA.

LOCATION.--Lat 30°46'35", long 81°58'44", Nassau County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, at bridge on U.S. Highways 1, 23, and 301, at Boulogne.

DRAINAGE AREA.--1,180 mi^2, approximately; includes part of watershed in Okefenokee Swamp, the drainage area of which is indeterminate.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH (STANDARD UNITS)	PH LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT									
12...	1210	52	51	5.40	5.20	19.5	24.5	5.8	63
NOV									
16...	1300	80	84	6.80	6.90	19.5	28.0	6.2	67
DEC									
08...	1525	69	69	6.50	6.50	12.0	24.0	9.0	83
JAN									
11...	1310	77	76	6.57	6.80	16.0	14.5	7.3	73
FEB									
08...	1430	93	92	7.00	7.00	19.5	15.5	6.6	71
MAR									
09...	1550	79	77	6.65	6.50	15.0	6.5	6.9	68
APR									
12...	1210	83	87	6.74	6.70	18.0	17.0	6.9	72
MAY									
11...	1220	81	82	6.98	7.10	22.0	25.0	6.3	72
JUN									
14...	1330	113	118	7.22	7.10	29.0	35.0	6.4	83
JUL									
12...	1155	71	71	6.55	6.40	30.5	31.5	5.3	71
AUG									
22...	1150	53	57	5.53	5.30	27.0	29.0	4.8	60
SEP									
26...	1320	53	53	--	4.50	23.0	31.0	5.9	69

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY WAT WH TOT FET LAB MG/L AS CACO3	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT										
12...	360	3.0	1.0	20	4	0.050	0.050	0.090	42	5.5
NOV										
16...	160	5.0	1.3	50	20	0.180	0.030	0.330	18	2.4
DEC										
08...	320	2.0	2.6	20	10	0.050	0.060	0.070	20	3.5
JAN										
11...	--	2.0	1.2	130	14	0.660	<0.030	0.080	22	3.5
FEB										
08...	120	2.0	1.3	20	20	0.130	<0.030	0.160	15	2.4
MAR										
09...	240	3.0	2.1	230	14	0.070	<0.030	0.090	18	2.2
APR										
12...	140	6.0	1.3	170	15	0.200	<0.030	0.160	23	3.1
MAY										
11...	220	4.0	1.2	20	18	0.110	0.030	0.090	19	2.6
JUN										
14...	90	4.0	1.4	70	35	0.090	<0.030	0.090	11	--
JUL										
12...	280	5.0	1.5	20	10	0.120	0.030	0.130	24	4.0
AUG										
22...	300	5.0	1.2	1300	4	0.060	0.180	0.050	41	5.1
SEP										
26...	360	3.0	1.2	20	1	0.040	0.030	0.140	--	7.6

02231253 ST MARYS RIVER NEAR GROSS, FLA.

LOCATION.--Lat 30°44'29", long 81°41'17", in land grant 41, T.4 N., R.26 E., Nassau County, Hydrologic Unit 03070204, at Florida-Georgia state line, near center of span on upstream side of bridge on U.S. Highway 17, 1.8 mi downstream from Little St Marys River, 2.1 mi north of Gross, and 21 mi upstream from mouth.

DRAINAGE AREA.--1,360 mi^2, approximately.

PERIOD OF RECORD.--April 1966 to September 1972, October 1972 to September 1973 (gage-heights only), October 1973 to August 1975, October 1980 to September 1983, October 1984 to current year incomplete.

GAGE.--Water-stage and electromagnetic flowmeter recorders. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929. April 1966 to August 1975 water-stage and deflection meter recorder at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 24 to Feb. 14, Apr. 17-19. Records poor. Discharge computed from continuous electromagnetic flowmeter record and represents net of much larger
upstream and downstream discharges. The stage record published is the maximum and minimum tide event for each calender day.

AVERAGE DISCHARGE.--10 years (1967-72, 1981-82, 1987, 1989), 1,529 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 17,300 ft^3/s, Nov. 2, 1969; maximum gage height, 14.60 ft, Nov. 1, 1969; maximum daily reverse flow, 6,230 ft^3/s, Sept. 12, 1989, caused by hurricane and extreme high tides; minimum gage height, 5.63 ft, Feb. 13, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,340 ft^3/s, Oct. 4; maximum gage height, 14.10 ft, Sept. 28; maximum daily reverse flow, 6,230 ft^3/s, Sept. 12, caused by hurricane and extreme high tides; minimum gage height, 7.17, Apr. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4090	3240	2670	2830	1300	2070	1430	1310	2240	2750	1890	-3560
2	3800	3260	1970	1940	1500	2200	1100	1470	2780	3500	1230	783
3	4330	1490	2060	2580	2000	2030	958	881	2960	3840	1440	483
4	5340	1810	1250	1510	2500	1680	953	2150	3170	3900	1530	555
5	3030	3220	1260	1350	3200	1330	1340	3030	3560	3380	1600	2140
6	3050	2580	2540	2340	2300	1190	1660	3120	3220	2300	885	-1780
7	3510	1620	3080	1240	3000	1560	1640	2790	3320	2420	1180	-3360
8	3890	1730	1630	1870	3500	2000	1320	2660	3450	2710	1230	-3500
9	3940	2050	1830	2310	2800	2440	1540	3130	3680	2050	1050	-4240
10	3830	2370	1940	2490	3200	2490	1760	3030	2780	1980	2090	-6120
11	3960	2580	2810	3100	2700	2780	2230	2250	2360	2170	1720	-5610
12	3410	2320	2880	3420	2400	2800	1990	2070	2440	1750	1200	-6230
13	2850	3510	4640	3390	2200	2240	2150	2090	3170	1890	1290	-3150
14	3630	3050	3440	2510	1900	2220	1850	1540	2720	1760	425	-5730
15	3370	2450	3370	3100	1720	2110	1940	1950	2610	1160	1280	-786
16	3200	2180	2320	2110	1610	1750	1370	1840	2600	2360	1640	-558
17	2810	2550	2880	1400	1220	1320	1200	1550	2830	2310	2340	-1140
18	2270	1130	2000	1960	1960	1680	1000	1890	3460	2320	2540	447
19	2310	1280	1970	1800	2240	1240	1300	2410	3710	2570	2170	1690
20	-138	3160	1680	1550	2120	1690	1620	2680	4160	2610	2630	1320
21	3260	1790	1680	338	2190	2060	2430	2970	4650	2580	2770	-709
22	2570	1680	1370	2820	2380	1520	3080	2630	4650	2720	2260	-496
23	2320	3580	2080	2900	2710	2140	3350	3140	4520	2910	1390	-2970
24	3160	2970	2770	2500	1940	2800	2320	2570	4440	2680	-793	-5060
25	2790	3570	2610	2100	2160	2410	2600	2700	4030	1840	-3330	-5890
26	3160	3250	2190	2500	2450	2110	2450	2770	2820	1520	-2010	-3690
27	2870	3150	3000	3000	2250	2020	2130	2600	2250	1350	1760	-1540
28	3240	3640	3210	3300	2340	2080	2030	972	2020	522	664	700
29	2950	2050	2130	2500	—	2040	1880	1710	2090	241	17	-2300
30	2420	2710	2460	2600	—	1880	1570	2570	1430	-55	307	-1090
31	2760	—	2180	2800	—	1970	—	2320	—	1490	-1560	—
TOTAL	97982	75970	73900	72158	63790	61850	54191	70793	94120	67528	32835	-61391
MEAN	3161	2532	2384	2328	2278	1995	1806	2284	3137	2178	1059	-2046
MAX	5340	3640	4640	3420	3500	2800	3350	3140	4650	3900	2770	2140
MIN	-138	1130	1250	338	1220	1190	953	881	1430	-55	-3330	-6230

WTR YR 1989 TOTAL 703726 MEAN 1928 MAX 5340 MIN -6230

Note: Negative figures indicate reverse flow.

02231253 ST MARYS RIVER NEAR GROSS, FLA.--Continued

GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.49	13.21	12.41	12.62	12.36	12.36	12.44	12.95	13.15	13.66	12.93	13.14
2	13.21	12.73	12.32	12.60	12.42	12.98	12.74	12.94	13.10	13.51	12.95	13.11
3	13.21	12.86	12.31	12.81	12.58	13.22	12.89	13.27	13.13	13.50	13.03	12.94
4	13.13	12.96	12.29	12.65	12.69	13.03	13.00	13.51	13.16	13.28	13.22	13.27
5	13.42	12.94	13.10	13.03	13.19	13.09	13.12	13.46	13.13	13.21	13.03	13.07
6	13.57	12.66	13.07	13.16	13.32	13.13	13.08	13.41	12.92	13.03	12.62	13.12
7	13.67	12.51	13.01	12.96	13.23	13.33	13.02	13.26	12.90	12.66	12.66	13.34
8	13.74	12.71	13.01	13.14	13.06	13.68	12.77	13.20	12.79	12.39	12.82	13.52
9	13.62	12.85	13.08	13.18	13.13	13.71	12.87	13.22	12.66	12.31	13.12	13.36
10	13.60	13.05	13.34	13.54	13.13	13.98	13.05	12.80	12.14	12.47	13.12	13.39
11	13.42	12.95	13.40	13.46	12.98	13.95	13.16	12.50	12.26	12.41	13.02	13.35
12	13.17	13.42	13.86	13.27	12.70	13.67	13.18	12.73	12.57	12.49	13.06	13.50
13	13.50	13.24	13.43	12.99	12.73	13.21	13.08	12.56	12.43	12.46	13.13	13.66
14	13.36	13.07	13.12	13.05	12.60	13.00	12.81	12.66	12.45	12.45	13.28	13.53
15	13.28	13.04	12.84	13.03	12.39	12.71	12.79	12.67	12.49	12.82	13.27	13.48
16	13.17	13.11	12.90	12.64	12.49	12.47	12.77	12.73	12.62	12.88	13.26	13.42
17	13.10	12.81	13.07	12.86	12.98	12.70	12.63	12.87	12.76	12.90	13.25	13.35
18	13.12	13.08	12.94	12.96	13.38	12.76	12.90	13.01	12.85	12.99	13.32	13.55
19	12.99	13.33	12.96	12.80	13.33	12.89	12.79	13.07	12.92	13.08	13.25	13.67
20	13.72	13.31	13.01	12.83	13.29	13.15	13.21	13.09	13.00	13.14	13.34	13.45
21	13.53	13.02	13.07	13.33	13.07	12.79	13.27	13.11	13.00	13.18	13.33	13.55
22	13.39	13.45	13.08	13.76	12.84	13.22	13.42	12.94	12.96	13.18	13.15	12.97
23	13.51	13.73	13.32	13.59	12.52	13.44	13.23	12.97	12.91	13.11	12.94	12.99
24	13.59	13.65	13.15	13.39	12.10	13.46	12.83	12.66	12.90	13.07	12.89	13.68
25	13.58	13.45	12.94	13.03	12.50	13.07	12.89	12.77	12.77	13.05	13.05	13.69
26	13.53	13.31	13.12	12.77	12.68	12.92	12.66	12.83	13.01	13.20	13.33	13.27
27	13.55	13.01	13.13	12.56	12.19	12.87	12.63	12.72	13.00	13.09	13.39	13.90
28	13.42	12.49	12.69	12.67	12.29	12.69	12.73	13.06	13.07	12.85	13.29	14.10
29	13.23	12.83	12.46	12.68	—	12.62	12.86	13.38	13.23	12.97	13.29	14.02
30	13.45	12.70	12.56	12.57	—	12.53	12.81	13.24	13.67	13.15	13.18	13.65
31	13.49	—	12.55	12.13	—	12.34	—	13.16	—	12.98	13.19	—
MEAN	13.41	13.05	12.95	12.97	12.79	13.06	12.92	12.99	12.86	12.95	13.12	13.43
MAX	13.74	13.73	13.86	13.76	13.38	13.98	13.42	13.51	13.67	13.66	13.39	14.10
MIN	12.99	12.49	12.29	12.13	12.10	12.34	12.44	12.50	12.14	12.31	12.62	12.94

CAL YR 1988	MEAN	13.02	MAX	13.95	MIN	11.76
WTR YR 1989	MEAN	13.05	MAX	14.10	MIN	12.10

02231253 ST MARYS RIVER NEAR GROSS, FLA.–Continued

GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.79	9.96	8.29	8.19	7.71	8.93	7.37	8.20	7.68	9.56	7.43	9.25
2	9.36	9.19	8.33	8.62	7.68	9.50	7.92	7.38	7.23	8.96	8.19	9.08
3	9.51	8.94	8.28	7.91	7.34	9.32	8.10	7.82	7.20	8.45	8.80	8.83
4	9.51	9.42	7.79	7.69	7.28	8.67	7.80	8.47	7.42	8.37	9.11	9.53
5	10.18	8.85	8.68	8.00	7.74	8.20	7.57	8.27	7.36	8.57	8.64	9.61
6	10.54	8.20	8.84	8.24	8.27	8.10	7.25	7.82	7.37	8.10	8.17	9.64
7	11.19	7.48	8.26	7.52	8.28	8.02	7.17	7.84	7.80	7.84	8.54	9.90
8	11.23	7.62	7.99	7.72	8.06	9.37	7.23	8.38	7.95	7.52	8.74	10.57
9	10.83	7.80	7.85	7.93	8.15	10.17	7.61	8.03	7.33	7.77	9.52	10.13
10	10.59	8.04	8.13	8.94	8.09	10.61	8.49	7.43	7.32	8.18	9.70	9.92
11	9.94	8.10	8.62	9.40	7.75	10.02	9.06	8.14	7.72	7.97	9.24	9.53
12	9.16	9.01	9.73	8.97	7.58	8.85	9.51	8.51	8.14	7.91	8.96	9.42
13	9.15	9.21	9.44	7.68	7.65	8.90	9.05	8.37	7.89	7.72	9.04	9.80
14	9.74	8.58	8.57	8.83	7.34	8.42	9.00	8.34	7.46	7.43	8.69	9.68
15	9.40	8.51	8.18	7.59	7.65	7.84	8.84	8.47	7.43	7.94	8.54	9.22
16	9.21	8.95	8.51	7.37	7.36	7.90	8.45	8.29	7.62	7.94	8.43	9.16
17	9.05	8.38	7.86	7.40	7.43	7.87	8.68	8.29	7.51	7.44	8.46	8.63
18	9.00	8.35	8.17	8.02	9.65	8.43	8.35	8.30	7.73	7.58	8.78	8.83
19	8.76	9.17	7.98	7.50	9.44	8.23	7.99	8.38	7.84	8.03	8.82	9.76
20	9.24	9.13	7.62	7.29	9.29	9.33	8.27	8.47	8.08	8.09	9.03	9.38
21	10.06	7.74	7.62	7.48	8.91	8.23	9.35	8.29	8.01	8.74	9.06	9.49
22	9.49	8.12	7.55	9.72	8.33	8.08	9.18	8.18	8.01	8.76	8.54	8.57
23	9.24	9.56	8.09	10.25	7.25	10.34	8.06	7.92	8.10	8.80	7.94	8.36
24	9.47	8.90	8.22	9.71	7.28	9.04	8.37	7.90	8.31	8.56	7.50	9.33
25	8.73	9.15	7.96	8.89	8.25	8.50	8.11	8.09	8.03	8.15	8.09	11.05
26	8.99	8.77	8.24	8.49	7.92	8.52	7.92	8.13	8.41	8.51	8.94	9.55
27	8.97	8.35	9.01	8.12	8.10	8.37	8.29	7.97	8.11	8.22	9.12	9.81
28	9.19	7.79	8.13	8.87	7.83	8.21	8.49	8.21	7.85	7.41	8.97	11.88
29	8.73	8.20	8.14	8.59	—	8.38	8.68	9.77	7.86	7.45	8.98	11.24
30	9.51	8.90	8.91	8.14	—	7.98	8.42	8.77	8.85	7.80	8.98	10.40
31	10.34	—	8.79	7.98	—	7.37	—	8.16	—	7.81	9.09	—
MEAN	9.62	8.61	8.32	8.29	7.99	8.70	8.29	8.21	7.79	8.12	8.71	9.65
MAX	11.23	9.96	9.73	10.25	9.65	10.61	9.51	9.77	8.85	9.56	9.70	11.88
MIN	8.73	7.48	7.55	7.29	7.25	7.37	7.17	7.38	7.20	7.41	7.43	8.36

CAL YR 1988 MEAN 8.57 MAX 11.23 MIN 7.27
WTR YR 1989 MEAN 8.53 MAX 11.88 MIN 7.17

02314500 SUWANNEE RIVER AT FARGO, GA.

LOCATION.--Lat 30°40'50", long 82°33'38", Clinch County, Hydrologic Unit, 03110201, on downstream side of right bank pier of bridge on U.S. Highway 441 at Fargo, 4 mi upstream from Suwannoochee Creek, and 12 mi downstream from Mixons Ferry damsite.

DRAINAGE AREA.--About 1,260 mi^2, includes part of watershed in Okefenokee Swamp, which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1921 to September 1923 (gage heights only), January 1927 to December 1931, April 1937 to current year. Monthly discharge only for April 1937, published in WSP 1304.

REVISED RECORDS.--WSP 1234: Drainage area. WSP 1504: 1928-30.

GAGE.--Water-stage recorder. Datum of gage is 91.90 ft above National Geodetic Vertical Datum of 1929. Jan. 27, 1921, to Sept. 30, 1923, non recording gage at site 1,200 ft upstream at datum 3.00 ft higher. Jan. 27, 1927, to Dec. 31, 1931, and Apr. 20, 1937, to June 10, 1938, nonrecording gage at site 1,000 ft upstream at datum 1.00 ft higher, June 11, 1938, to Nov. 26, 1952, nonrecording gage at site 1,000 ft upstream at present datum. Oct. 14, 1960, to Oct. 29, 1970, auxiliary water-stage recorder at site about 3 mi upstream and since Nov. 5, 1971, auxiliary water-stage recorder at site about 2 mi upstream.

REMARKS.--No estimated daily discharges. Records good. Low flow at times affected by manipulation of water level at Mixons Ferry Dam.

AVERAGE DISCHARGE.--56 years (water years 1928-31, 1938-89), 1,052 ft^3/s, 11.34 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft^3/s, Oct. 1, 5, 6, 1928; maximum gage height, 21.01 ft, Apr. 9, 1973; no flow at times in 1931, 1943, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 29	0400	*497	*5.11

Minimum discharge, 10 ft^3/s, June 8.

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	294	100	388	173	102	88	123	87	20	89	81	137
2	271	98	355	235	101	91	113	90	16	92	77	174
3	326	97	330	230	99	114	108	88	16	93	70	154
4	461	109	311	209	98	114	105	86	14	93	61	162
5	441	127	293	191	97	107	101	85	13	91	54	148
6	398	136	276	178	95	100	100	82	12	88	45	142
7	363	134	262	170	95	95	99	80	12	100	36	136
8	335	129	250	163	98	91	100	79	11	95	30	137
9	314	125	239	157	98	89	98	77	15	85	30	137
10	299	122	230	152	95	88	105	77	21	81	25	137
11	286	118	237	148	94	87	119	78	26	77	22	137
12	270	115	311	145	93	85	125	73	28	71	20	135
13	251	112	323	143	91	84	121	70	31	64	18	133
14	230	109	306	140	90	83	116	67	33	69	30	139
15	212	107	287	137	89	82	114	62	36	84	46	134
16	198	105	273	134	88	81	130	56	37	76	58	126
17	184	103	262	130	86	81	131	47	41	67	64	122
18	173	101	250	127	85	80	123	41	41	61	67	116
19	164	99	239	124	85	79	117	37	40	58	80	110
20	156	97	230	121	84	78	115	34	39	59	90	106
21	148	95	222	119	85	77	118	31	35	68	99	101
22	143	94	215	117	93	78	115	29	31	76	103	99
23	136	99	208	118	94	103	110	29	26	73	108	111
24	130	103	202	116	91	173	104	28	37	69	109	123
25	125	122	196	114	89	141	100	27	52	64	107	128
26	120	144	188	111	88	124	97	25	62	65	105	128
27	115	144	181	109	87	114	94	25	68	67	106	124
28	110	372	176	108	86	107	91	25	74	69	100	122
29	107	488	172	106	—	102	89	24	80	72	114	127
30	105	435	168	104	—	104	87	24	86	80	112	132
31	103	—	164	104	—	132	—	23	—	83	112	—
TOTAL	6968	4339	7744	4433	2576	3052	3268	1686	1053	2379	2179	3917
MEAN	225	145	250	143	92.0	98.5	109	54.4	35.1	76.7	70.3	131
MAX	461	488	388	235	102	173	131	90	86	100	114	174
MIN	103	94	164	104	84	77	87	23	11	58	18	99
CFSM	.18	.12	.20	.11	.07	.08	.09	.04	.03	.06	.06	.10
IN.	.21	.13	.23	.13	.08	.09	.10	.05	.03	.07	.06	.12

CAL YR 1988 TOTAL 193500 MEAN 529 MAX 4160 MIN 21 CFSM .42 IN 5.71
WTR YR 1989 TOTAL 43594 MEAN 119 MAX 488 MIN 11 CFSM .09 IN 1.29

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
20...	0855	156	75	71	3.90	3.80	18.5	18.5	7.5	81
NOV										
17...	0945	103	69	64	4.00	3.80	20.0	23.5	7.3	81
DEC										
21...	0905	222	71	65	4.00	3.90	9.0	11.0	11.2	97
JAN										
19...	0945	123	71	65	4.00	4.20	13.0	13.0	9.2	88
FEB										
16...	1010	88	68	63	4.00	3.90	18.0	22.0	8.4	88
MAR										
23...	0955	88	68	65	4.10	4.00	19.0	20.0	7.5	82
APR										
20...	0940	112	68	62	4.00	3.90	22.5	24.5	6.5	76
MAY										
18...	0925	41	66	65	4.10	--	25.5	28.0	6.8	84
JUN										
22...	0805	32	66	58	4.10	4.00	27.5	24.5	6.0	77
JUL										
20...	0940	57	84	81	4.00	3.60	27.0	29.0	5.9	75
AUG										
24...	0910	108	85	94	3.90	3.80	28.0	29.0	5.6	73
SEP										
21...	0900	102	90	87	3.90	3.60	24.5	21.0	5.6	68

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT											
20...	320	1.0	0.8	<20	<1	3	<0.020	0.040	0.040	50	6.5
NOV											
17...	280	2.0	1.6	--	<1	<1	0.040	<0.030	0.070	44	6.1
DEC											
21...	100	2.0	0.8	<20	<1	1	0.030	0.050	0.030	35	--
JAN											
19...	200	2.0	1.9	<20	<1	2	<0.020	<0.030	0.020	46	3.2
FEB											
16...	120	2.0	2.4	20	<1	5	0.020	0.030	0.070	41	5.7
MAR											
23...	--	16	1.9	490	1	7	0.050	0.100	0.040	36	5.0
APR											
20...	120	3.0	2.2	<20	<1	9	0.020	<0.030	0.030	40	5.7
MAY											
18...	200	1.0	1.6	<20	--	2	0.040	<0.030	0.060	41	5.6
JUN											
22...	240	2.0	1.1	20	1	2	0.030	<0.030	0.060	33	--
JUL											
20...	400	2.0	1.0	<20	1	<1	<0.020	0.030	0.110	71	8.6
AUG											
24...	240	2.0	1.0	--	1	--	<0.030	M0.020	0.110	65	7.5
SEP											
21...	140	5.0	1.6	<20	1	7	<0.020	<0.030	0.220	--	7.5

02316000 ALAPAHA RIVER NEAR ALAPAHA, GA.

LOCATION.--Lat 31°23'03", long 83°11'33", Berrien County, Hydrologic Unit 03110202, at bridge on U.S. Highway 82, 2 mi east of Alapaha, and 6 mi upstream from Willacoochee River.

DRAINAGE AREA.--663 mi².

PERIOD OF RECORD.--October 1969 to current year. Water-discharge records for water years 1937-76 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAR									
14...	0845	968	53	54	5.65	6.00	14.5	7.5	74
JUL									
12...	1430	734	48	51	5.96	6.70	25.0	5.2	63

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
MAR										
14...	120	12	13	2.7	1.6	3.3	31	0.4	2.1	3.0
JUL										
12...	--	12	13	2.9	1.4	2.6	26	0.3	2.3	5.0

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
MAR											
14...	11	0.10	6.6	63	--	--	--	0.500	<0.100	0.030	0.020
JUL											
12...	11	0.10	7.0	64	--	--	--	<0.100	<0.100	0.090	0.090

02316000 ALAPAHA RIVER NEAR ALAPAHA, GA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN DISSOLVED (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)
MAR												
14...	0.57	0.58	0.60	0.60	1.1	--	0.030	0.020	15	270	<1	<1
JUL												
12...	1.1	0.81	1.2	0.90	--	--	0.050	0.020	23	220	1	1

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)
MAR											
14...	<1	2	<1	520	<5	<5	37	<0.10	<0.1	<1	6
JUL											
12...	<1	2	4	1200	2	2	58	<0.10	<0.1	<1	5

02317500 ALAPAHA RIVER AT STATENVILLE, GA.

LOCATION.--Lat 30°42'14", long 83°02'00", Echols County, Hydrologic Unit 03110202, at downstream side of left bank pier of bridge on State Highway 94, 0.2 mi west of Statenville.

DRAINAGE AREA.--1,400 mi², approximately.

PERIOD OF RECORD.--January to June 1921, October 1931 to current year. Monthly discharge only for October to December, 1931, published in WSP 1304.

REVISED RECORDS.--WSP 822: 1936, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 76.77 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Jan. 28 to June 30, 1921, nonrecording gage at site 50 ft upstream at datum 2.10 ft higher. Dec. 10, 1931 to Nov. 30, 1949, nonrecording gage at site 200 ft upstream at present datum, and Dec. 1, 1949, to Nov. 22, 1952, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: May 19-24. Records good, except those for the period of estimated daily discharge, which are fair. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--58 years (1932-89), 1,048 ft³/s, 10.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,300 ft³/s, Apr. 6, 1948, gage height, 29.8 ft, from graph based on gage readings; minimum, 16 ft³/s, Nov. 13, 14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, that of Apr. 6, 1948, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
July 6	2200	*1,830	*8.84

Minimum discharge, 61 ft³/s, Nov. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	100	75	100	97	268	956	608	92	1520	1250	234
2	300	93	72	105	96	302	959	535	86	1540	1230	249
3	286	89	70	101	96	362	960	499	83	1600	1140	234
4	324	87	68	97	96	401	953	470	82	1650	989	259
5	396	95	67	94	97	456	917	457	76	1730	814	253
6	405	91	66	95	97	541	852	458	74	1820	639	216
7	371	86	66	98	97	629	770	483	74	1760	506	190
8	330	85	66	99	95	708	695	507	80	1580	422	171
9	296	82	67	99	93	776	629	489	614	1350	462	150
10	275	82	68	98	91	828	576	457	398	1180	536	132
11	268	85	74	98	89	871	497	398	274	1080	513	119
12	264	84	87	99	87	919	427	366	211	1040	453	110
13	250	83	92	102	86	965	381	378	163	1020	398	104
14	230	80	91	105	86	1020	375	411	155	996	378	106
15	215	79	89	106	90	1070	421	418	315	972	375	102
16	200	79	90	106	92	1110	531	389	480	943	369	98
17	189	76	96	105	92	1150	678	337	619	934	332	93
18	167	74	101	105	92	1160	856	292	686	976	297	90
19	163	73	103	105	95	1120	1010	260	785	1010	281	85
20	163	71	104	108	102	1010	1160	240	888	1090	311	81
21	161	68	102	110	115	879	1300	220	1020	1150	275	77
22	158	68	101	114	145	759	1420	200	1100	1120	244	76
23	152	71	101	117	160	692	1540	180	1230	1350	221	76
24	146	68	101	117	162	659	1640	160	1390	1400	214	75
25	139	65	102	113	165	631	1680	149	1400	1410	192	74
26	131	64	100	111	188	646	1620	138	1370	1370	175	74
27	123	70	98	107	208	682	1450	126	1300	1320	168	71
28	119	115	96	104	230	712	1200	118	1240	1280	162	70
29	113	98	95	102	—	752	946	111	1250	1220	154	73
30	111	82	93	99	—	829	746	104	1340	1210	155	75
31	106	—	93	97	—	926	—	99	—	1230	166	—
TOTAL	6884	2443	2694	3216	3239	23833	28145	10057	18875	39851	13821	3817
MEAN	222	81.4	86.9	104	116	769	938	324	629	1286	446	127
MAX	405	115	104	117	230	1160	1680	608	1400	1820	1250	259
MIN	106	64	66	94	86	268	375	99	74	934	154	70
CFSM	.16	.06	.06	.07	.08	.55	.67	.23	.45	.92	.32	.09
IN.	.18	.06	.07	.09	.09	.63	.75	.27	.50	1.06	.37	.10

CAL YR 1988	TOTAL	307571	MEAN	840	MAX	4760	MIN	38	CFSM	.60	IN	8.17
WTR YR 1989	TOTAL	156875	MEAN	430	MAX	1820	MIN	64	CFSM	.31	IN	4.17

02317718 NEW RIVER NEAR TIFTON, GA.

LOCATION.--Lat 31°26'33", long 83°28'33", Tift County, Hydrologic Unit 03110203, at bridge on U.S. Highway 82, 1.6 mi east of Tifton.
DRAINAGE AREA.--10.4 mi^2.
PERIOD OF RECORD.--July 1979 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 18...	0805	5.3	745	750	7.60	7.90	21.0	16.0	8.1	92
NOV 15...	0900	5.3	--	1120	7.60	7.60	21.5	19.0	7.3	--
DEC 19...	0900	1.6	--	1660	7.40	7.90	11.0	5.0	9.5	--
JAN 17...	0905	6.7	980	985	7.60	7.70	15.0	6.5	9.2	92
FEB 14...	0905	4.5	--	1440	7.80	7.70	16.0	17.0	9.1	--
MAR 21...	1015	--	--	--	7.70	7.70	20.5	22.0	8.0	--
APR 18...	0745	13	385	378	7.40	7.60	20.0	19.0	8.1	90
MAY 16...	0820	--	1100	1100	7.70	7.70	22.5	22.0	6.9	81
JUN 20...	0820	49	164	159	7.40	7.00	23.0	28.0	6.1	72
JUL 18...	0755	17	263	265	7.10	7.10	25.5	26.0	6.3	78
AUG 22...	0835	--	610	622	7.70	7.60	27.5	26.0	6.9	89
SEP 19...	0650	5.0	860	875	7.80	7.90	25.0	19.0	6.4	79

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	30	6.0	1.8	20	149	5	2.60	0.260	4.13	8.8
NOV 15...	50	5.0	1.8	--	171	5	7.40	0.080	4.05	8.3
DEC 19...	25	6.0	1.8	--	163	9	14.5	0.100	2.90	7.1
JAN 17...	40	22	2.4	2200	129	7	24.8	0.080	2.59	13
FEB 14...	30	6.0	1.7	330	166	3	46.5	0.250	3.32	10
MAR 21...	--	7.0	--	--	138	<1	20.0	0.030	2.86	10
APR 18...	--	9.0	1.2	--	73	5	2.08	0.050	1.40	11
MAY 16...	30	6.0	2.8	790	155	2	13.0	0.110	2.57	10
JUN 20...	90	22	1.8	2800	28	18	0.980	0.080	0.480	16
JUL 18...	100	12	1.3	490	47	9	2.50	0.110	0.840	14
AUG 22...	30	3.0	1.2	2300	126	2	2.70	0.170	2.22	--
SEP 19...	40	4.0	1.3	490	153	1	8.20	0.110	4.20	--

023177483 WITHLACOOCHEE RIVER AT MCMILLAN ROAD NEAR BEMISS, GA.

LOCATION.--Lat 30°56'50", long 83°16'22", Lowndes County, Hydrologic Unit 03110203, on downstream side of county bridge on McMillan Road, 2.3 mi downstream from Cat Creek, and 3.0 mi northwest of Bemiss.

DRAINAGE AREA.--502 mi^2, approximately.

PERIOD OF RECORD.--June 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 125 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,140 ft^3/s, July 26, 1989, gage height, 9.91 ft; minimum discharge, 1.6 ft^3/s, July 15, 1988.

EXTREMES FOR CURRENT YEAR.--June to September 1988: Maximum discharge, 734 ft^3/s, Sept. 10; gage height 7.87 ft; minimum discharge 1.6 ft^3/s, July 15.

Water year 1989: Maximum discharge, 1,140 ft^3/s, July 26; gage height 9.91 ft, minimum discharge 7.9 ft^3/s, June 5,6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	3.5	19	119
2									---	3.2	44	64
3									---	2.7	23	55
4									---	3.7	18	44
5									---	3.7	16	127
6									---	3.0	21	140
7									---	2.3	23	107
8									---	2.0	12	142
9									---	1.9	9.0	570
10									---	1.8	7.0	715
11									53	2.5	6.2	652
12									33	2.9	7.4	609
13									22	2.6	5.9	453
14									15	2.4	24	474
15									11	2.0	98	514
16									9.6	3.5	62	472
17									8.0	5.9	64	422
18									6.9	3.2	38	323
19									6.1	2.3	26	254
20									6.3	8.4	28	201
21									6.1	4.9	27	156
22									5.7	3.4	29	124
23									5.1	8.8	28	103
24									4.6	18	33	87
25									4.1	20	58	75
26									3.8	17	47	69
27									3.6	15	44	70
28									4.2	13	35	63
29									3.5	13	26	57
30									2.9	28	48	52
31									---	13	160	---
TOTAL									---	217.6	1086.5	7313
MEAN									---	7.02	35.0	244
MAX									---	28	160	715
MIN									---	1.8	5.9	44
CFSM									---	.01	.07	.49
IN.									---	.02	.08	.54

023177483 WITHLACOOCHEE RIVER AT MCMILLAN ROAD NEAR BEMISS, GA.–Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	28	26	30	42	265	433	39	12	336	336	82
2	53	28	25	33	47	208	298	52	11	316	269	87
3	124	27	25	34	48	200	247	56	11	282	191	75
4	249	25	23	43	44	209	232	49	9.3	416	134	72
5	270	43	22	43	40	233	195	48	8.3	666	97	121
6	241	44	21	39	41	269	153	85	9.9	722	75	149
7	193	34	20	38	46	294	121	157	11	666	62	97
8	185	28	20	40	52	320	101	164	12	619	55	66
9	216	26	19	41	49	325	87	116	85	587	145	52
10	203	26	19	38	44	283	76	86	115	460	87	44
11	155	26	23	44	41	229	70	70	97	312	69	40
12	119	26	41	34	38	187	67	65	160	222	59	33
13	93	28	43	34	34	159	66	74	232	177	55	27
14	75	29	39	34	31	140	69	95	346	144	56	26
15	64	27	38	32	28	122	126	176	453	159	55	31
16	57	26	38	30	26	107	267	251	410	224	53	35
17	52	26	39	29	25	98	315	209	267	267	53	28
18	47	26	40	28	24	91	302	132	179	335	50	23
19	43	25	42	28	23	89	285	85	153	404	45	21
20	47	25	42	28	23	85	291	62	170	457	41	19
21	58	26	40	27	48	79	312	48	174	549	38	17
22	49	28	37	28	124	80	288	40	221	714	33	16
23	39	29	36	33	162	151	216	34	479	867	30	15
24	36	34	36	34	163	287	154	32	448	931	26	14
25	33	34	35	32	173	328	112	29	257	1070	23	14
26	30	31	34	29	171	377	88	25	245	1130	25	14
27	29	29	32	31	198	394	73	22	263	1090	33	14
28	31	34	31	27	247	419	61	19	327	971	40	14
29	29	31	30	25	—	467	50	17	343	790	52	15
30	29	28	29	25	—	522	42	15	329	558	68	17
31	29	—	28	30	—	608	—	14	—	390	71	—
TOTAL	2927	877	973	1021	2032	7625	5197	2366	5837.5	16831	2426	1278
MEAN	94.4	29.2	31.4	32.9	72.6	246	173	76.3	195	543	78.3	42.6
MAX	270	44	43	44	247	608	433	251	479	1130	336	149
MIN	29	25	19	25	23	79	42	14	8.3	144	23	14
CFSM	.19	.06	.06	.07	.15	.49	.35	.15	.39	1.08	.16	.09
IN.	.22	.06	.07	.08	.15	.57	.39	.18	.43	1.25	.18	.09

WTR YR 1989 TOTAL 49390.5 MEAN 135 MAX 1130 MIN 8.3 CFSM .27 IN 3.66

02317749 WITHLACOOCHEE RIVER ABOVE VALDOSTA, GA.

LOCATION.--Lat 30°55'57", long 83°17'22", Lowndes County, Hydrologic Unit 03110203, at county highway bridge, 1.5 mi upstream from Bay Branch, and 7 mi north of Valdosta.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Laboratory analyses with the analyzing agency code 81213 are provided by the U.S. Geological Survey. Laboratory analyses with the agency analyzing code 81314 are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, Dissolved Oxygen, and Total Alkalinity are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 20...	1420	39	132	131	6.70	7.10	17.5	23.0	8.5	90
NOV 17...	1450	35	130	140	6.50	7.10	20.0	21.0	6.1	68
DEC 21...	1430	33	330	342	7.30	7.30	10.5	25.0	11.9	107
JAN 19...	1435	26	375	371	7.40	7.30	12.5	22.5	10.6	100
FEB 16...	1505	25	418	426	7.50	7.40	18.0	29.0	9.8	104
MAR 23...	1510	140	187	180	7.00	6.60	17.0	19.0	7.2	76
APR 20...	1445	280	122	112	6.80	6.80	18.5	20.0	7.0	76
MAY 18...	1425	128	130	123	6.80	6.90	20.0	29.5	7.5	83
JUN 22...	1345	205	120	--	6.90	7.00	25.0	29.5	6.7	82
JUL 20...	1445	410	118	123	6.60	6.40	25.0	27.0	6.2	76
AUG 24...	1425	25	195	195	7.00	6.70	28.0	32.0	5.6	73
SEP 21...	1415	16	182	181	7.10	7.00	23.0	24.5	5.8	69

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	140	4.0	1.0	70	19	0.140	<0.030	0.220	13
NOV 17...	50	5.0	2.6	--	88	0.070	0.080	0.190	6.6
DEC 21...	80	1.0	0.8	230	44	1.25	0.080	0.210	10
JAN 19...	100	4.0	1.7	70	54	3.50	<0.030	0.290	13
FEB 16...	90	2.0	1.4	50	--	5.50	0.030	0.370	12
MAR 23...	240	12	1.6	460	26	1.17	0.050	0.310	16
APR 20...	140	6.0	1.6	20	17	0.170	<0.030	0.210	21
MAY 18...	200	8.0	1.0	<20	18	0.150	<0.030	0.230	22
JUN 22...	--	17	1.6	350	19	0.270	<0.030	0.320	20
JUL 20...	160	5.0	1.1	80	13	0.470	0.050	0.270	24
AUG 24...	70	3.0	0.2	--	31	0.210	0.050	0.280	17
SEP 21...	100	4.0	1.0	50	31	0.200	0.030	0.560	--

02317755 WITHLACOOCHEE RIVER AT U.S. HIGHWAY 41, NEAR VALDOSTA, GA.

LOCATION.–Lat 30°53'33", long 83°19'08", Lowndes County, Hydrologic Unit 03110203, on downstream side of bridge on U.S. Highway 41, 1.1 mi downstream from Cherry Creek, 4.0 mi upstream from Sugar Creek, and 5.3 mi north of Valdosta..

DRAINAGE AREA.–537 mi^2, approximately.

PERIOD OF RECORD.–October 1976 to September 1978; August 1988 to January 1990 (discontinued).

GAGE.–Water-stage recorder. Elevation of gage is 120 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.–No estimated daily discharges. Records fair, except those less than 200 ft^3/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 5,390 ft^3/s, Dec. 2, 1976, gage height, 16.32 ft; no flow at times most years.

EXTREMES FOR CURRENT PERIOD.–August to September 1988: Maximum discharge, 871 ft^3/s, Sept. 10, gage height, 11.04 ft; minimum daily discharge, no flow, Aug. 20-23, 29.

Water year 1989: Maximum discharge, 1,120 ft^3/s, July 26, gage height, 11.86 ft; minimum daily discharge, no flow on many days.

October to January 1990: Maximum observed discharge, 706 ft^3/s, Jan. 4, gage height, 10.41 ft; minimum daily discharge, no flow on many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	—	—	—	—	—	—	—	—	—	—	2.2	94
2	—	—	—	—	—	—	—	—	—	—	9.8	26
3	—	—	—	—	—	—	—	—	—	—	11	5.4
4	—	—	—	—	—	—	—	—	—	—	2.2	1.8
5	—	—	—	—	—	—	—	—	—	—	.98	129
6	—	—	—	—	—	—	—	—	—	—	.63	142
7	—	—	—	—	—	—	—	—	—	—	.47	81
8	—	—	—	—	—	—	—	—	—	—	.36	100
9	—	—	—	—	—	—	—	—	—	—	.29	578
10	—	—	—	—	—	—	—	—	—	—	.23	847
11	—	—	—	—	—	—	—	—	—	—	.27	765
12	—	—	—	—	—	—	—	—	—	—	.36	661
13	—	—	—	—	—	—	—	—	—	—	.22	536
14	—	—	—	—	—	—	—	—	—	—	1.6	439
15	—	—	—	—	—	—	—	—	—	—	6.9	467
16	—	—	—	—	—	—	—	—	—	—	6.0	453
17	—	—	—	—	—	—	—	—	—	—	1.6	416
18	—	—	—	—	—	—	—	—	—	—	.54	334
19	—	—	—	—	—	—	—	—	—	—	.05	239
20	—	—	—	—	—	—	—	—	—	—	.00	173
21	—	—	—	—	—	—	—	—	—	—	.00	121
22	—	—	—	—	—	—	—	—	—	—	.00	84
23	—	—	—	—	—	—	—	—	—	—	.00	59
24	—	—	—	—	—	—	—	—	—	—	.37	42
25	—	—	—	—	—	—	—	—	—	—	.55	30
26	—	—	—	—	—	—	—	—	—	—	.02	30
27	—	—	—	—	—	—	—	—	—	—	.41	26
28	—	—	—	—	—	—	—	—	—	—	.24	18
29	—	—	—	—	—	—	—	—	—	—	.00	11
30	—	—	—	—	—	—	—	—	—	—	7.9	6.1
31	—	—	—	—	—	—	—	—	—	—	116	—
TOTAL	—	—	—	—	—	—	—	—	—	—	171.19	6914.3
MEAN	—	—	—	—	—	—	—	—	—	—	5.52	230
MAX	—	—	—	—	—	—	—	—	—	—	116	847
MIN	—	—	—	—	—	—	—	—	—	—	.00	1.8
CFSM	—	—	—	—	—	—	—	—	—	—	.01	.43
IN.	—	—	—	—	—	—	—	—	—	—	.01	.48

02317755 WITHLACOOCHEE RIVER AT U.S. HIGHWAY 41, NEAR VALDOSTA, GA.--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	.03	.28	.00	.03	196	523	.91	.03	284	342	46
2	2.5	.02	.19	.00	.04	177	333	2.1	.03	273	272	43
3	39	.01	.09	.00	.04	163	219	.25	.02	236	188	38
4	166	.01	.05	.00	.03	156	180	.21	.01	288	115	34
5	217	.39	.03	.00	.03	159	149	.03	.00	495	60	33
6	200	.07	.01	.00	.04	188	107	.14	.08	636	35	96
7	150	.02	.00	.00	.04	215	70	31	.15	653	18	78
8	117	.00	.07	.00	.04	240	50	73	.17	597	9.8	33
9	128	.00	.04	.00	.03	258	45	54	73	570	156	9.3
10	141	.00	.02	.00	.02	239	48	34	77	494	127	1.6
11	107	.00	.37	.00	.02	186	31	14	43	345	46	.29
12	75	.00	.68	.00	.02	138	23	3.6	159	205	21	.06
13	44	.00	.26	.01	.03	103	18	2.7	128	135	11	.49
14	26	.00	.11	.07	.04	80	13	7.2	202	87	17	.81
15	15	.00	.06	.10	.04	64	56	40	317	74	23	.19
16	8.7	.00	.06	.10	.04	48	178	122	371	127	14	.07
17	4.2	.00	.06	.09	.04	35	256	141	279	180	8.4	.04
18	1.3	.00	.04	.07	.03	26	260	80	149	244	5.1	.01
19	.50	.00	.04	.05	.03	21	234	31	107	315	2.3	.00
20	.24	.00	.03	.03	.07	18	225	8.5	97	388	.79	.00
21	.09	.00	.03	.02	13	15	238	1.3	90	451	.54	.00
22	.11	.00	.02	.03	69	18	241	.31	118	604	.35	.00
23	.11	.00	.01	.04	92	97	182	.21	305	863	.28	.00
24	.15	.00	.03	.03	98	266	110	.22	534	898	.23	.00
25	.04	.00	.17	.03	101	290	61	.10	309	990	.22	.05
26	.01	.00	.19	.02	102	312	35	.06	194	1100	4.1	.23
27	.00	2.0	.11	.01	110	341	17	.04	181	1120	47	6.4
28	.00	15	.04	.01	152	356	6.2	.03	223	1050	8.5	2.1
29	.00	.97	.00	.01	—	393	1.2	.02	276	906	2.6	.56
30	.00	.49	.00	.02	—	479	.18	.02	275	693	5.6	.36
31	.02	—	.00	.02	—	614	—	.03	—	466	29	—
TOTAL	1446.47	19.01	3.09	0.76	737.70	5891	3909.58	647.98	4507.49	15767	1569.81	423.56
MEAN	46.7	.63	.10	.025	26.3	190	130	20.9	150	509	50.6	14.1
MAX	217	15	.68	.10	152	614	523	141	534	1120	342	96
MIN	.00	.00	.00	.00	.02	15	.18	.02	.00	74	.22	.00
CFSM	.09	.00	.00	.00	.05	.35	.24	.04	.28	.95	.09	.03
IN.	.10	.00	.00	.00	.05	.41	.27	.04	.31	1.09	.11	.03

WTR YR 1989 TOTAL 34923.45 MEAN 95.7 MAX 1120 MIN .00 CFSM .18 IN. 2.42

02317755 WITHLACOOCHEE RIVER AT U.S. HIGHWAY 41, NEAR VALDOSTA, GA.--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	.00	5.6	481	—	—	—	—	—	—	—	—
2	3.9	.00	9.4	555	—	—	—	—	—	—	—	—
3	.72	.00	8.2	616	—	—	—	—	—	—	—	—
4	1.7	.00	3.2	700	—	—	—	—	—	—	—	—
5	4.5	.00	.14	—	—	—	—	—	—	—	—	—
6	.66	.00	.00	—	—	—	—	—	—	—	—	—
7	.19	.03	.00	—	—	—	—	—	—	—	—	—
8	.10	.04	29	—	—	—	—	—	—	—	—	—
9	.06	2.9	98	—	—	—	—	—	—	—	—	—
10	.03	.38	164	—	—	—	—	—	—	—	—	—
11	.03	.03	238	—	—	—	—	—	—	—	—	—
12	.02	13	302	—	—	—	—	—	—	—	—	—
13	.00	18	373	—	—	—	—	—	—	—	—	—
14	.00	9.6	421	—	—	—	—	—	—	—	—	—
15	.00	6.4	456	—	—	—	—	—	—	—	—	—
16	.00	4.0	455	—	—	—	—	—	—	—	—	—
17	.00	.52	403	—	—	—	—	—	—	—	—	—
18	.64	.04	364	—	—	—	—	—	—	—	—	—
19	.80	.00	399	—	—	—	—	—	—	—	—	—
20	.24	.00	562	—	—	—	—	—	—	—	—	—
21	35	.00	586	—	—	—	—	—	—	—	—	—
22	52	.06	544	—	—	—	—	—	—	—	—	—
23	23	9.1	505	—	—	—	—	—	—	—	—	—
24	5.2	14	505	—	—	—	—	—	—	—	—	—
25	.29	17	568	—	—	—	—	—	—	—	—	—
26	.02	17	629	—	—	—	—	—	—	—	—	—
27	.00	12	604	—	—	—	—	—	—	—	—	—
28	.00	7.0	496	—	—	—	—	—	—	—	—	—
29	.00	4.0	388	—	—	—	—	—	—	—	—	—
30	.00	2.4	314	—	—	—	—	—	—	—	—	—
31	.00	—	292	—	—	—	—	—	—	—	—	—
TOTAL	131.60	137.50	9721.54	—	—	—	—	—	—	—	—	—
MEAN	4.25	4.58	314	—	—	—	—	—	—	—	—	—
MAX	52	18	629	—	—	—	—	—	—	—	—	—
MIN	.00	.00	.00	—	—	—	—	—	—	—	—	—
CFSM	.01	.01	.58	—	—	—	—	—	—	—	—	—
IN.	.01	.01	.67	—	—	—	—	—	—	—	—	—

CAL YR 1989 TOTAL 43445.52 MEAN 119 MAX 1120 MIN .00 CFSM .22 IN. 3.01

02317757 WITHLACOOCHEE RIVER NEAR VALDOSTA, GA.

LOCATION.--Lat 30°51'00", long 83°20'23", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 94, 0.8 mi upstream from Little River, and 4 mi northwest of Valdosta.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Streamflow includes return flow by city of Valdosta. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
20...	1340	8.0	148	147	6.70	--	17.5	23.0	8.1	86
NOV										
17...	1350	14	127	124	6.60	6.70	19.5	22.0	5.9	65
DEC										
21...	1340	25	108	98	7.40	--	10.5	25.0	11.2	101
JAN										
19...	1330	6.9	102	107	6.90	6.70	12.5	21.0	11.9	112
FEB										
16...	1415	6.9	102	101	7.00	7.10	18.5	29.0	9.0	96
MAR										
23...	1420	250	50	56	6.80	--	21.0	16.5	8.2	93
APR										
20...	1400	515	134	125	6.90	7.00	19.0	19.5	6.1	67
MAY										
18...	1340	110	158	--	6.80	6.80	21.0	28.5	7.2	81
JUN										
22...	1210	135	118	118	6.80	6.60	25.0	30.0	6.7	82
JUL										
20...	1350	550	105	103	6.60	6.50	25.0	25.5	6.0	74
AUG										
24...	1325	3.7	132	135	6.90	6.60	28.0	33.0	6.2	80
SEP										
21...	1330	3.7	126	125	7.10	7.00	22.0	26.0	6.8	79

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
20...	80	5.0	1.3	170	--	0.790	0.670	0.200	6.5
NOV									
17...	40	5.0	3.0	--	31	0.930	0.300	0.210	5.3
DEC									
21...	40	16	2.8	170	15	1.42	0.200	0.190	4.1
JAN									
19...	35	5.0	2.1	70	22	0.750	0.140	0.150	33
FEB									
16...	30	5.0	1.9	110	61	0.810	0.180	0.130	5.9
MAR									
23...	100	120	5.3	10450	11	0.240	0.090	0.380	12
APR									
20...	70	8.0	1.9	70	18	0.300	<0.030	0.210	23
MAY									
18...	200	9.0	1.3	110	18	0.220	<0.030	0.250	19
JUN									
22...	220	9.0	1.1	330	16	0.240	<0.030	0.320	19
JUL									
20...	160	7.0	1.1	790	13	0.320	0.040	0.280	26
AUG									
24...	80	5.0	1.2	--	27	0.660	0.410	0.150	8.8
SEP									
21...	80	6.0	1.5	130	29	0.940	0.430	0.370	--

02318500 WITHLACOOCHEE RIVER NEAR QUITMAN, GA.

LOCATION.--Lat 30°47'35", long 83°27'13", Brooks-Lowndes County line, Hydrologic Unit 03110203, at abandoned bridge on old U.S. Highway 84, 4 mi upstream from Piscola Creek, 6 mi east of Quitman, and 9 mi downstream from Little River.
DRAINAGE AREA.--1,480 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to December 1931, June 1937 to May 1948, October 1988 to current year.
REVISED RECORDS.--WSP 1304: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 84.30 ft above National Geodetic Vertical Datum of 1929. October 1, 1928 to December 11, 1931, nonrecording gage at same site at datum 5.0 ft lower. June 9, 1937 to May 31, 1948, nonrecording gage at same site and datum. September 29, 1988 to May 4, 1989, water-stage recorder at site, 2,000 ft upstream at same datum.
REMARKS.--Estimated daily discharges, Apr. 9-13, 20-28, June 2-23, Sept. 6-30. Records good, except those for the periods of estimated discharges, June 2-23 and Sept. 6-30, which are poor.
AVERAGE DISCHARGE.--15 years (water years 1929-31, 1938-48, 1989), 1,164 ft^3/s, 10.68 in/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,000 ft^3/s, April 4, 1948, gage height, 31.7 ft, from floodmark; minimum observed discharge 5.9 ft^3/s, November 11-13, 1940, November 21, 1942.
EXTREMES FOR CURRENT YEAR.--Maximum discharge 4,460 ft^3/s, July 27, gage height 14.30 ft; minimum discharge 41 ft^3/s, June 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	32	41	38	38	599	1480	173	47	1990	1700	166
2	149	33	32	39	36	624	1160	196	40	2110	1230	146
3	243	26	28	36	38	670	848	170	40	2090	916	122
4	413	25	26	36	44	634	671	170	35	1790	703	128
5	439	42	25	39	44	647	589	260	30	1400	538	133
6	469	52	24	44	48	699	527	307	40	1360	407	150
7	438	41	24	44	59	753	455	312	45	1500	315	260
8	416	42	25	48	69	796	385	386	60	1500	257	200
9	435	35	30	50	70	831	340	415	330	1400	601	130
10	428	27	26	56	71	865	424	534	420	1310	559	95
11	359	25	30	59	70	871	326	465	520	1240	376	75
12	269	23	57	58	64	846	269	319	430	1150	289	55
13	204	22	45	56	55	755	238	267	740	1180	245	50
14	163	23	40	57	49	630	239	343	1050	1220	261	45
15	131	23	35	52	46	528	474	462	1550	1170	301	45
16	109	22	33	49	48	453	728	584	2200	1210	227	50
17	98	22	33	50	51	398	864	663	1800	1390	194	60
18	81	22	30	47	52	366	993	621	960	1540	168	55
19	71	21	27	43	52	370	1100	472	780	1750	148	45
20	64	21	26	44	51	366	1160	314	660	2040	126	35
21	59	22	28	44	108	330	1100	214	730	2250	110	30
22	58	32	40	48	225	309	957	160	800	2480	99	30
23	51	33	43	62	192	471	809	134	1500	3400	97	25
24	51	26	43	64	291	694	653	119	1620	3760	101	25
25	47	22	46	61	366	749	513	100	1520	3940	95	25
26	41	21	48	56	403	849	407	87	1320	4260	90	25
27	39	30	48	51	437	944	320	75	1260	4450	265	25
28	36	144	44	47	500	1010	255	67	1310	4290	163	25
29	32	64	42	44	---	1060	213	59	1460	3820	107	25
30	30	47	39	42	---	1250	182	55	1650	3150	92	25
31	30	---	36	42	---	1560	---	53	---	2390	93	---
TOTAL	5609	1020	1094	1506	3577	21927	18679	8556	24947	68530	10873	2305
MEAN	181	34.0	35.3	48.6	128	707	623	276	832	2211	351	76.8
MAX	469	144	57	64	500	1560	1480	663	2200	4450	1700	260
MIN	30	21	24	36	36	309	182	53	30	1150	90	25
CFSM	.12	.02	.02	.03	.09	.48	.42	.19	.56	1.49	.24	.05
IN.	.14	.03	.03	.04	.09	.55	.47	.22	.63	1.72	.27	.06

WTR YR 1989 TOTAL 168623 MEAN 462 MAX 4450 MIN 21 CFSM .31 IN 4.24

02318500 WITHLACOOCHEE RIVER NEAR QUITMAN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1977 to current year.

REMARKS.--Streamflow includes return flow by the City of Valdosta. Laboratory chemical analyses by Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
20...	1230	63	123	125	6.80	7.10	20.0	25.0	9.5	106
NOV										
17...	1220	22	172	174	7.10	6.90	19.0	21.0	6.2	67
DEC										
21...	1200	25	148	148	7.00	--	9.5	23.0	11.0	97
JAN										
19...	1205	42	145	145	7.10	7.00	16.0	19.5	9.7	99
FEB										
16...	1305	47	149	150	7.20	7.40	17.0	28.0	10.3	106
MAR										
23...	1315	458	107	105	6.80	6.80	18.5	19.5	7.2	78
APR										
20...	1255	1160	83	83	6.90	6.60	19.5	21.0	7.5	83
MAY										
18...	1215	623	91	91	6.90	6.90	22.0	28.5	7.2	83
JUN										
22...	1030	1270	78	77	6.50	6.60	25.0	29.0	6.6	81
JUL										
20...	1230	2050	69	70	6.40	6.20	25.5	27.0	6.2	77
AUG										
24...	1155	100	119	119	7.20	6.90	30.0	33.0	6.5	87
SEP										
21...	1200	--	146	145	7.10	6.90	24.0	25.0	6.5	78

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
20...	110	4.0	0.8	70	30	0.960	<0.030	0.390	7.9
NOV									
17...	40	7.0	2.0	--	25	2.90	0.100	1.19	6.8
DEC									
21...	45	12	1.6	35	16	3.00	0.090	0.920	7.0
JAN									
19...	50	12	1.8	<20	21	1.43	0.200	0.740	4.8
FEB									
16...	70	5.0	1.1	20	22	1.31	0.060	0.660	8.8
MAR									
23...	120	18	1.4	130	17	0.540	0.110	0.270	17
APR									
20...	90	13	1.9	40	9	0.170	<0.030	0.140	18
MAY									
18...	140	18	1.1	80	13	0.330	<0.030	0.210	17
JUN									
22...	140	16	1.2	230	10	0.240	<0.030	0.190	17
JUL									
20...	180	11	1.1	220	7	0.170	<0.030	0.140	26
AUG									
24...	80	5.0	1.0	--	17	0.950	0.080	0.280	11
SEP									
21...	40	8.0	1.1	220	21	1.33	<0.030	0.790	--

02318700 OKAPILCO CREEK AT STATE HIGHWAY 33, NEAR QUITMAN, GA.

LOCATION.--Lat 30°49'32", long 83°33'45", Brooks County, Hydrologic Unit 03110203, at bridge on State Highway 33, 3.0 mi north of Quitman.
DRAINAGE AREA.--269 mi^2, approximately.
PERIOD OF RECORD.--December 1979 to current year.
GAGE.--Water-stage recorder. Elevation of gage is 110 ft above National Geodetic Vertical Datum of 1929 (from topographic map).
REMARKS.--Estimated daily discharges: July 25, 26. Records fair.
AVERAGE DISCHARGE.--9 years (water years 1981-89), 222 ft^3/s, 11.21 in/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,500 ft^3/s, Feb. 12, 1986, gage height, 18.75 ft, from floodmarks. No flow at times most years.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 25	Unknown	*2,280	*12.34	No other peak greater than base discharge.			

Minimum discharge, 0.04 ft^3/s, June 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	.63	.98	.90	.45	32	123	6.1	.24	158	235	56
2	3.8	.59	.67	1.2	.42	38	83	7.7	.18	189	169	45
3	33	.51	.52	1.2	.38	53	66	9.2	.12	209	132	30
4	76	.44	.45	1.0	.35	51	58	6.9	.07	218	108	24
5	42	1.4	.39	.83	.38	43	53	4.8	.04	259	92	23
6	31	3.4	.66	.67	.35	52	45	3.6	.16	258	78	27
7	40	1.9	.54	.65	.34	69	36	9.3	.28	210	64	55
8	52	1.0	.42	.59	.37	86	29	17	.29	173	49	93
9	47	.76	.41	.69	.36	94	26	17	24	157	54	97
10	34	.64	.37	.81	.33	92	76	55	51	136	48	69
11	27	.53	.58	.70	.27	82	59	78	22	119	36	42
12	21	.44	3.0	.65	.24	70	38	33	23	107	29	27
13	16	.41	2.9	.64	.22	60	25	18	50	111	26	20
14	12	.37	2.0	.63	.22	52	19	12	87	152	39	15
15	9.1	.35	1.5	.65	.20	45	28	8.2	112	153	45	12
16	7.0	.33	1.2	.64	.20	39	55	6.7	123	170	45	10
17	5.5	.32	1.2	.63	.19	34	45	5.5	136	259	41	9.0
18	4.4	.30	1.2	.57	.18	31	42	5.2	111	381	52	7.4
19	3.4	.31	1.0	.51	.18	26	41	5.1	93	495	66	6.0
20	2.6	.38	.87	.48	.19	22	41	4.5	117	642	61	4.9
21	2.1	.79	.81	.45	1.5	22	41	3.8	168	773	48	4.0
22	1.8	.92	.76	.46	14	30	39	3.2	215	853	40	3.5
23	1.4	.89	.75	.53	8.7	52	32	2.7	221	864	33	3.1
24	1.1	.90	.74	.58	3.6	75	25	2.5	186	1050	26	2.7
25	.90	.83	.74	.48	2.0	63	19	1.9	141	1900	20	2.6
26	.76	.69	.69	.42	1.5	70	16	1.5	114	1700	16	2.5
27	.68	.63	.61	.40	1.4	100	14	1.1	107	1270	16	2.8
28	.62	1.7	.54	.37	16	138	11	.78	99	912	17	2.9
29	.54	2.2	.60	.34	---	162	9.0	.57	105	678	13	2.8
30	.54	1.4	.68	.36	---	208	7.0	.44	132	493	18	2.5
31	.61	---	.70	.41	---	228	---	.32	---	340	31	---
TOTAL	480.05	25.96	28.48	19.44	54.52	2219	1201.0	331.61	2438.38	15389	1747	701.7
MEAN	15.5	.87	.92	.63	1.95	71.6	40.0	10.7	81.3	496	56.4	23.4
MAX	76	3.4	3.0	1.2	16	228	123	78	221	1900	235	97
MIN	.54	.30	.37	.34	.18	22	7.0	.32	.04	107	13	2.5
CFSM	.06	.003	.003	.002	.007	.27	.15	.04	.30	1.84	.21	.09
IN.	.07	.00	.00	.00	.01	.31	.17	.05	.34	2.13	.24	.10

CAL YR 1988	TOTAL	63517.79	MEAN	174	MAX	5180	MIN	.00	CFSM	.65	IN	8.78
WTR YR 1989	TOTAL	24636.14	MEAN	67.5	MAX	1900	MIN	.04	CFSM	.25	IN	3.41

02318725 OKAPILCO CREEK AT QUITMAN, GA.

LOCATION.–Lat 30°47'10", long 83°31'33", Brooks County, Hydrologic Unit 03110203, at U.S. Highways 84 and 221, 1.8 mi east of Quitman.
DRAINAGE AREA.–278 mi^2, approximately.
PERIOD OF RECORD.–November 1974 to current year. Published as Okapilco Creek near Quitman, water years 1974 through 1982.
REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 20...	1300	3.6	110	107	6.50	6.80	17.5	25.0	6.1	64
NOV 17...	1315	2.2	275	279	7.20	7.00	20.0	22.0	3.0	33
DEC 21...	1255	2.9	210	200	7.10	7.00	10.5	24.0	5.0	45
JAN 19...	1240	3.1	265	259	7.40	7.30	12.5	20.0	6.4	60
FEB 16...	1335	9.0	248	262	8.60	7.10	20.0	29.5	13.6	150
MAR 23...	1340	68	160	155	6.90	6.60	17.0	23.0	6.0	63
APR 20...	1330	45	108	105	6.60	6.70	19.5	21.0	5.1	56
MAY 18...	1310	2.1	150	151	6.80	6.90	22.0	31.0	4.4	51
JUN 22...	1140	225	94	97	6.40	6.20	24.5	30.0	5.5	67
JUL 20...	1315	530	69	72	6.10	5.90	25.0	25.0	5.5	68
AUG 24...	1240	9.0	100	100	6.70	6.30	28.0	33.0	5.0	65
SEP 21...	1255	3.5	150	151	7.10	6.90	24.0	25.0	3.5	42

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	70	12	3.5	2300	17	0.510	0.330	0.340	13
NOV 17...	50	12	9.4	--	87	0.100	4.70	2.04	15
DEC 21...	40	12	6.7	4900	60	0.540	4.40	0.620	12
JAN 19...	60	16	8.7	<20	80	0.320	6.40	1.26	9.7
FEB 16...	60	22	8.1	3300	20	0.290	5.20	1.73	20
MAR 23...	120	150	6.6	7900	19	2.30	3.06	1.45	17
APR 20...	110	12	3.2	4900	14	0.420	0.290	0.480	18
MAY 18...	120	18	6.6	18000	28	0.620	0.640	0.700	15
JUN 22...	140	19	2.5	7900	12	0.230	0.120	0.360	18
JUL 20...	200	19	1.8	340	6	0.070	0.050	0.200	28
AUG 24...	85	8.0	2.0	--	13	0.350	0.070	0.180	16
SEP 21...	100	14	1.4	60	36	0.250	1.08	0.770	--

02318960 WITHLACOOCHEE RIVER NEAR CLYATTVILLE, GA.

LOCATION.--Lat 30°38'07", long 83°18'41", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 31, 4.3 mi south of Clyattville.

DRAINAGE AREA.--2,030 mi^2, approximately.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Streamflow includes return flow by the City of Valdosta. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
20...	1105	274	185	189	7.00	7.70	20.0	25.0	6.0	67
NOV										
17...	1125	149	225	227	7.70	7.80	20.0	21.0	5.0	55
DEC										
21...	1100	156	200	186	7.50	7.50	15.0	22.0	7.9	78
JAN										
19...	1120	175	207	209	7.40	7.60	16.5	18.0	6.8	70
FEB										
16...	1205	160	210	--	7.60	7.70	18.5	26.0	6.4	68
MAR										
23...	1205	530	127	125	7.20	7.10	19.5	21.0	6.0	66
APR										
20...	1145	1350	95	94	7.00	6.80	20.0	27.0	7.0	78
MAY										
18...	1120	1000	100	100	7.00	7.10	22.5	27.0	6.5	76
JUN										
22...	0955	1670	77	80	6.60	6.50	25.0	29.0	6.2	76
JUL										
20...	1120	2340	72	72	6.60	6.40	25.5	27.0	6.0	74
AUG										
24...	1100	310	172	172	7.40	7.30	26.5	31.0	5.3	67
SEP										
21...	1120	170	212	214	7.70	7.50	23.0	25.0	4.9	58

02318960 WITHLACOOCHEE RIVER NEAR CLYATTVILLE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT							
20...	120	3.0	25	0.7	<20	68	3
NOV							
17...	20	<1.0	9	1.1	--	93	<1
DEC							
21...	40	3.0	13	0.9	20	73	2
JAN							
19...	25	2.0	6	1.7	330	71	3
FEB							
16...	30	2.0	14	0.8	<20	73	2
MAR							
23...	110	9.0	36	1.3	20	28	8
APR							
20...	120	14	51	1.9	80	13	17
MAY							
18...	100	17	43	0.8	40	20	8
JUN							
22...	140	15	55	1.4	80	12	11
JUL							
20...	160	12	69	1.1	50	10	12
AUG							
24...	70	3.0	--	0.3	--	55	--
SEP							
21...	40	2.0	--	1.2	20	83	7

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
20...	0.360	<0.030	--	0.40	0.76	0.150	5.5
NOV							
17...	0.670	<0.030	--	0.30	0.97	0.240	5.9
DEC							
21...	0.970	0.050	0.25	0.30	1.3	0.240	4.6
JAN							
19...	0.850	<0.030	--	0.90	1.7	0.300	18
FEB							
16...	0.740	0.050	0.35	0.40	1.1	0.350	3.9
MAR							
23...	0.430	0.040	0.66	0.70	1.1	0.210	12
APR							
20...	0.270	0.050	0.65	0.70	0.97	0.190	16
MAY							
18...	0.360	<0.030	--	0.70	1.1	0.200	17
JUN							
22...	0.240	<0.030	--	0.90	1.1	0.200	18
JUL							
20...	0.190	0.030	0.97	1.0	1.2	0.160	26
AUG							
24...	0.490	0.020	--	--	--	0.180	2.9
SEP							
21...	0.380	0.330	--	--	--	0.500	--

02327205 OCHLOCKONEE RIVER NEAR MOULTRIE, GA.

LOCATION.–Lat 31°08'31", long 83°48'13", Colquitt County, Hydrologic Unit 03120002, at bridge on county road 1 mi from U.S. Highway 319, and 3.0 mi south of Moultrie.

DRAINAGE AREA.–103 mi^2.

PERIOD OF RECORD.–July 1979 to current year.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH (STANDARD UNITS)	PH LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 19...	0730	3.1	865	877	7.20	7.40	17.5	15.0	5.1	54
NOV 16...	0900	4.0	--	1490	7.20	7.60	18.0	19.0	3.6	--
DEC 20...	0855	8.1	870	986	7.30	7.40	6.0	6.0	8.7	70
JAN 18...	0840	7.2	525	--	7.03	--	10.5	5.5	9.6	87
FEB 15...	0840	6.4	540	529	7.00	7.20	14.0	14.0	4.2	41
MAR 22...	0840	34	232	236	6.90	6.80	17.5	16.0	4.2	45
APR 19...	0800	70	135	135	6.60	6.60	18.5	19.0	5.9	64
MAY 17...	0800	14	197	179	6.80	6.80	20.5	24.0	5.0	56
JUN 20...	0810	275	80	78	6.30	6.00	23.0	25.0	4.1	49
JUL 19...	0820	445	69	69	6.30	6.10	24.5	27.0	4.0	49
AUG 23...	0815	6.6	380	393	7.00	7.00	27.0	26.5	4.0	51
SEP 20...	0740	3.5	850	855	7.20	7.20	22.0	19.5	4.2	49

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	35	1.0	1.0	230	75	<1	7.20	0.030	3.42	5.9
NOV 16...	15	1.0	0.5	90	95	4	8.20	<0.030	4.35	5.9
DEC 20...	30	<1.0	1.6	790	75	<1	8.00	0.060	3.43	7.1
JAN 18...	--	--	--	--	--	--	--	--	--	--
FEB 15...	50	3.0	5.0	40	60	<1	3.50	1.58	2.33	15
MAR 22...	100	7.0	10	3300	27	3	1.81	0.270	1.01	14
APR 19...	40	9.0	1.9	--	13	5	0.870	0.080	0.540	18
MAY 17...	100	17	5.0	50	22	4	1.42	0.040	0.960	16
JUN 20...	160	17	2.9	490	8	<1	0.640	2.25	0.340	21
JUL 19...	140	17	1.5	220	8	5	0.370	0.050	0.260	20
AUG 23...	80	5.0	1.2	790	42	5	2.90	0.260	1.16	12
SEP 20...	20	1.0	0.7	130	82	<1	9.80	0.070	2.35	--

02327500 OCHLOCKONEE RIVER NEAR THOMASVILLE, GA.

LOCATION.--Lat 30°52'32", long 84°02'44", Thomas County, Hydrologic Unit 03120002, at bridge on U.S. Highway 84, 2 mi upstream from Seaboard Coast Line Railroad bridge, 4 mi upstream from Barnetts Creek, 5 mi northwest of Thomasville, and 6 mi downstream from Little Ochlockonee River.

DRAINAGE AREA.--550 mi^2, approximately.

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Records of discharge for the water years 1937-71 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
19...	0840	18	298	312	7.10	7.30	17.5	17.0	7.3	77
NOV										
16...	0955	12	480	486	7.30	7.30	18.5	22.0	6.9	74
DEC										
20...	0955	28	325	354	7.40	7.40	6.0	7.5	11.7	94
JAN										
18...	1005	26	320	328	7.30	7.40	11.5	10.5	8.8	81
FEB										
15...	0945	21	312	309	7.40	7.50	14.0	18.5	9.5	93
MAR										
22...	0945	89	195	190	7.10	7.10	18.5	16.0	6.2	67
APR										
19...	0910	225	108	110	6.80	6.80	19.0	22.0	6.8	74
MAY										
17...	0900	69	160	163	7.00	7.00	21.0	25.5	6.2	70
JUN										
21...	0920	860	82	81	6.60	6.30	23.5	27.0	5.8	69
JUL										
19...	0950	4000	52	62	5.90	5.70	25.0	24.0	5.7	70
AUG										
23...	0925	90	147	153	6.90	7.00	27.0	28.5	5.0	64
SEP										
20...	0910	30	192	204	6.90	6.80	23.0	21.0	5.6	66

02327500 OCHLOCKONEE RIVER NEAR THOMASVILLE, GA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
19...	60	9.0	0.5	460	46	2.50	0.100	1.41	8.6
NOV									
16...	30	7.0	1.6	2300	58	9.30	<0.030	2.83	7.6
DEC									
20...	30	4.0	1.0	220	43	1.80	0.040	1.19	6.9
JAN									
18...	55	6.0	0.8	1300	45	2.10	0.040	1.50	12
FEB									
15...	25	9.0	1.8	230	46	1.68	<0.030	1.34	8.9
MAR									
22...	100	6.0	1.6	170	33	0.600	0.610	0.850	12
APR									
19...	60	9.0	1.4	--	14	0.480	<0.030	0.400	9.6
MAY									
17...	100	13	1.1	20	26	0.860	0.060	0.650	13
JUN									
21...	140	18	1.7	220	12	0.380	0.480	0.300	19
JUL									
19...	160	15	1.4	170	4	0.040	<0.030	0.110	26
AUG									
23...	80	10	1.0	50	22	0.710	0.200	0.390	13
SEP									
20...	50	9.0	1.9	<20	38	1.17	0.110	0.720	--

02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.

LOCATION.--Lat 30°43'53", long 84°14'12", Grady County, Hydrologic Unit 03120003, at county highway bridge, 1.5 mi downstream from Tired Creek, and 6.5 mi east of Calvary.

DRAINAGE AREA.--930 mi², approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
19...	0905	51	275	282	7.20	7.40	17.0	19.5	8.5	89
NOV										
16...	1035	39	340	343	7.40	7.40	18.5	23.0	8.7	94
DEC										
20...	1040	81	305	303	7.30	7.40	6.0	13.0	12.8	102
JAN										
18...	1050	67	345	351	7.30	7.40	11.0	15.0	9.9	90
FEB										
15...	1020	85	285	285	7.20	7.30	14.0	19.0	10.3	100
MAR										
22...	1025	210	268	267	7.20	7.00	18.5	17.0	7.0	75
APR										
19...	1000	350	147	144	7.00	7.00	19.0	24.0	7.5	82
MAY										
17...	1000	120	208	210	7.00	7.00	22.0	30.0	6.3	73
JUN										
21...	1005	2400	135	135	6.50	6.30	23.5	30.0	5.1	60
JUL										
19...	1025	3350	62	62	6.00	5.90	25.0	25.0	5.3	65
AUG										
23...	1005	1750	145	150	6.80	6.90	27.0	30.5	5.1	65
SEP										
20...	0950	95	194	200	6.90	6.90	23.0	22.5	6.9	82

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
19...	50	7.0	1.3	80	36	<1	2.10	0.040	0.660	7.9
NOV										
16...	35	5.0	1.5	90	43	3	3.30	<0.030	0.940	6.6
DEC										
20...	20	4.0	0.6	170	30	<1	1.74	0.070	0.800	6.9
JAN										
18...	50	6.0	1.3	80	34	3	1.75	<0.030	0.780	11
FEB										
15...	40	8.0	1.4	50	30	3	1.14	0.030	0.620	8.6
MAR										
22...	60	8.0	1.6	330	26	2	1.16	0.060	0.470	11
APR										
19...	30	12	1.3	--	14	13	0.850	<0.030	0.390	13
MAY										
17...	100	15	1.3	50	26	6	0.850	0.030	0.530	16
JUN										
21...	150	25	2.1	2300	10	9	0.270	0.210	0.300	20
JUL										
19...	160	20	1.2	50	5	3	0.060	0.060	0.140	23
AUG										
23...	70	9.0	1.2	140	24	8	0.780	0.150	0.320	12
SEP										
20...	50	10	0.9	<20	29	<1	1.55	0.070	0.550	--

02330450 CHATTAHOOCHEE RIVER AT HELEN, GA.

LOCATION.--Lat 34°42'03", long 83°43'44", White County, Hydrologic Unit 03130001, on downstream side of bridge on Georgia Highways 17 and 75 at Helen, and 1.1 mi downstream from Smith Creek.

DRAINAGE AREA.--44.7 mi^2.

PERIOD OF RECORD.--May 1981 to current year. Miscellaneous low-flow measurements, water years 1953, 1955.

GAGE.--Water-stage recorder. Datum of gage is 1,404.04 ft above National Geodetic Vertical Datum of 1929.

AVERAGE DISCHARGE.--8 years, 117 ft^3/s, 35.54 in/yr.

REMARKS.--No estimated daily discharges. Records good. Some regulation at low-flow on Smith Creek by Unicoi Lake at Unicoi State Park.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,260 ft^3/s, Feb. 2, 1983, gage height, 5.54 ft; minimum discharge, 19 ft^3/s, Oct.6-8, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 23, 1967, reached a discharge of 11,000 ft^3/s from contracted-opening computation at highway bridge 2 mi downstream at a drainage area of 48.2 mi^2.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,220 ft^3/s, Sept. 30; stage rising, peak occurred Oct. 1, 1989; maximum peak discharge,
1,170 ft^3/s, June 20; gage height, 3.29 ft^3/s, no peak discharge greater than base discharge of 1,200 ft^3/s; minimum discharge, 32 ft^3/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	46	88	188	84	244	132	166	95	226	180	97
2	212	42	81	132	82	188	127	135	94	213	213	95
3	275	40	77	119	81	172	137	119	95	335	175	92
4	238	44	74	102	79	190	170	119	100	382	162	89
5	117	119	70	94	109	443	215	239	113	309	154	89
6	88	69	68	107	113	365	175	229	103	405	150	98
7	76	57	67	96	113	288	199	162	92	507	145	91
8	67	57	66	107	100	237	235	144	110	350	140	88
9	63	52	64	118	92	210	247	178	202	333	136	85
10	59	63	61	161	88	190	204	209	130	312	132	86
11	56	67	60	211	86	177	180	170	108	278	129	98
12	51	58	58	237	84	170	168	153	100	259	127	90
13	49	58	58	231	83	160	159	142	110	244	125	92
14	48	54	58	193	82	153	153	140	111	231	129	95
15	47	52	57	191	80	150	165	139	332	219	163	92
16	46	59	55	162	78	157	149	129	359	213	134	106
17	46	73	54	144	84	141	141	123	264	204	128	84
18	49	59	53	133	102	139	138	119	185	196	121	80
19	66	58	54	125	92	133	136	117	308	206	118	78
20	46	178	53	116	118	152	132	126	892	260	115	77
21	56	132	54	108	263	189	129	118	679	232	112	109
22	48	98	54	103	180	166	126	137	573	231	123	137
23	45	87	68	100	141	215	124	172	460	310	115	99
24	44	79	88	98	120	220	122	127	356	301	107	85
25	42	73	80	94	112	182	120	119	322	274	103	226
26	42	71	65	93	110	165	118	114	284	264	122	249
27	41	152	61	93	186	155	115	111	256	236	117	141
28	42	131	73	88	434	149	114	104	296	210	104	127
29	41	108	66	86	—	145	118	102	280	193	102	309
30	41	97	90	91	—	154	116	100	248	197	104	690
31	44	—	160	86	—	141	—	97	—	188	100	—
TOTAL	2219	2333	2135	4007	3376	5940	4564	4359	7657	8318	4085	3974
MEAN	71.6	77.8	68.9	129	121	192	152	141	255	268	132	132
MAX	275	178	160	237	434	443	247	239	892	507	213	690
MIN	34	40	53	86	78	133	114	97	92	188	100	77
CFSM	1.61	1.74	1.55	2.89	2.71	4.31	3.41	3.16	5.72	6.01	2.96	2.96
IN.	1.85	1.95	1.78	3.34	2.82	4.95	3.81	3.64	6.39	6.94	3.41	3.31

CAL YR 1988	TOTAL	27392	MEAN	74.8	MAX	769	MIN	24	CFSM	1.68	IN	22.85
WTR YR 1989	TOTAL	52967	MEAN	145	MAX	892	MIN	34	CFSM	3.25	IN	44.18

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.

LOCATION.--Lat 34°32'27", long 83°37'14", Habersham-White County line, Hydrologic Unit 03130001, on downstream side of bridge on Duncan Bridge Road, 1 mi downstream from Soque River, 6 mi northwest of Cornelia, and at mile 401.4.
DRAINAGE AREA.--315 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1957 to current year.
REVISED RECORDS.--WSP 2106: 1963(M).
GAGE.--Water-stage recorder. Datum of gage is 1,128.53 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).
REMARKS.--No estimated daily discharges. Records good. Some regulation at low flow from Habersham Mill powerplant.
AVERAGE DISCHARGE.--32 years, 813 ft^3/s, 35.05 in/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft^3/s, Mar. 12, 1963, gage height, 20.55 ft, from rating curve extended above 13,000 ft^3/s on basis of contracted-opening measurement of peak flow; minimum daily discharge, 91 ft^3/s, Sept. 7, 1957.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 20	1700	*9,360	*8.74	No other peak greater than base discharge.			

Minimum daily discharge, 175 ft^3/s, Oct. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	293	389	1100	427	1440	640	708	465	908	927	556
2	773	271	375	737	399	1010	621	714	441	856	1060	544
3	906	236	258	607	397	895	639	575	431	1290	843	499
4	1350	231	324	516	388	837	767	549	384	2580	780	505
5	634	360	373	451	344	2700	1110	764	576	1530	737	505
6	460	402	328	496	609	1640	871	1100	621	2080	716	534
7	398	366	323	481	581	1270	917	730	511	2010	694	534
8	363	301	307	455	541	1050	1080	652	489	1410	667	517
9	247	291	277	542	486	941	1280	756	926	1220	658	500
10	360	292	259	760	445	868	984	990	734	1210	640	482
11	323	341	218	871	408	812	873	778	572	1100	636	481
12	298	217	314	1220	296	769	811	695	516	1050	626	556
13	275	252	285	1160	436	757	770	647	528	978	619	491
14	244	330	297	939	409	715	734	615	511	930	630	503
15	234	290	296	879	394	699	782	731	1410	880	1330	481
16	183	291	292	788	380	719	736	612	2400	880	871	585
17	227	312	199	681	380	665	698	575	1740	910	769	489
18	235	263	187	629	477	655	679	558	1080	908	689	454
19	383	202	305	595	408	617	665	549	1210	882	666	450
20	305	497	274	568	596	702	644	578	5440	1160	637	444
21	311	653	283	490	1160	929	632	562	4030	1200	618	629
22	259	439	298	454	1000	870	616	549	2460	1120	596	951
23	200	389	211	521	715	1010	607	1130	1910	1200	694	668
24	297	303	274	489	616	1210	594	697	1570	1210	604	516
25	248	323	417	472	577	917	572	593	1300	1050	578	1120
26	244	311	316	448	482	823	561	563	1210	1060	629	2420
27	246	486	347	437	826	775	543	552	1060	980	765	1050
28	247	611	320	420	3220	724	528	526	1060	884	609	791
29	175	479	316	301	---	699	534	415	1030	845	592	1300
30	197	415	334	447	---	725	533	513	1000	854	585	2650
31	293	---	677	405	---	686	---	490	---	938	605	---
TOTAL	11123	10447	9673	19359	17397	29129	22021	20466	37615	36113	22070	22205
MEAN	359	348	312	624	621	940	734	660	1254	1165	712	740
MAX	1350	653	677	1220	3220	2700	1280	1130	5440	2580	1330	2650
MIN	175	202	187	301	296	617	528	415	384	845	578	444
CFSM	1.14	1.11	.99	1.98	1.97	2.98	2.33	2.10	3.98	3.70	2.26	2.35
IN.	1.31	1.23	1.14	2.29	2.05	3.44	2.60	2.42	4.44	4.26	2.61	2.62

CAL YR 1988	TOTAL	152990	MEAN	418	MAX	5250	MIN	108	CFSM	1.33	IN	18.07
WTR YR 1989	TOTAL	257618	MEAN	706	MAX	5440	MIN	175	CFSM	2.24	IN	30.42

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
NOV										
09...	1400	324	33	31	7.20	7.40	11.0	20.0	11.2	105
JAN										
11...	1000	785	34	33	6.30	6.90	7.5	7.0	10.1	86
MAR										
14...	1000	709	27	26	6.50	6.40	11.0	16.0	10.2	96
MAY										
09...	0900	681	24	24	6.20	6.90	14.0	17.5	9.1	92
JUN										
12...	0800	513	26	26	6.80	6.80	19.5	24.5	8.2	93
SEP										
20...	1400	443	28	29	6.51	6.90	20.0	29.0	7.6	87

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV								
09...	4.0	1.2	50	12	0.190	<0.030	0.040	1.3
JAN								
11...	15	1.3	440	9	0.410	<0.030	0.060	2.8
MAR								
14...	5.0	0.9	20	7	0.380	0.130	0.060	1.6
MAY								
09...	9.0	1.5	1300	8	0.310	0.110	0.090	1.8
JUN								
12...	11	0.6	170	8	0.290	0.050	0.080	2.6
SEP								
20...	7.0	1.1	80	8	0.250	<0.030	0.280	--

02333500 CHESTATEE RIVER NEAR DAHLONEGA, GA.

LOCATION.--Lat 34°31'41", long 83°56'23", Lumpkin County, Hydrologic Unit 03130001, on left bank 250 ft upstream from Bearden Bridge on State Highway 52, 2 mi downstream from Ballplay Creek, 2.5 mi east of Dahlonega, and 3.5 mi upstream from Yahoola Creek.

DRAINAGE AREA.--153 mi².

PERIOD OF RECORD.--July 1929 to January 1932, April 1940 to current year. Monthly discharge only for July 1929, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 1,128.6 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--51 years (water years 1930-31, 1941-89), 359 ft³/s, 31.86 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,700 ft³/s, Aug. 23, 1967, gage height, 25.17 ft; minimum daily, 44 ft³/s, Aug. 6, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 12, 1907 reached a stage of about 25 ft, from information by local resident. Flow increased by failure of dam above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,950 ft³/s, Sept. 30, stage rising, peak occurred Oct. 1, 1989; and peak discharges greater than base discharge of 2,600 ft³/s.

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 28	1015	2,770	6.42	June 20	1730	4,160	8.51
Mar. 5	0345	3,850	8.07				

Minimum daily discharge, 83 ft³/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	114	189	771	201	914	294	331	201	412	351	206
2	659	103	175	428	198	605	283	327	196	390	338	195
3	774	99	164	331	195	519	294	267	198	513	288	183
4	655	101	158	278	190	507	407	257	200	764	268	176
5	281	241	149	241	240	2170	707	386	227	596	254	173
6	204	184	145	297	327	1160	509	571	279	677	245	187
7	173	144	142	271	330	850	525	355	218	682	237	190
8	154	131	139	272	285	655	724	312	206	530	228	179
9	141	130	141	290	247	557	812	410	407	477	227	173
10	135	126	132	478	231	494	584	469	302	420	219	168
11	127	138	130	626	225	450	498	368	237	393	217	171
12	119	127	127	864	216	419	450	325	214	374	212	208
13	111	125	124	892	210	393	419	301	252	353	211	184
14	110	121	124	626	205	371	397	294	233	335	210	178
15	111	118	122	599	200	356	428	319	1030	318	682	178
16	107	118	120	492	197	359	385	282	1210	318	420	240
17	106	164	117	412	199	329	360	261	895	315	291	182
18	107	140	116	363	252	320	345	250	521	295	267	168
19	156	132	115	330	247	306	335	245	594	302	268	161
20	116	316	115	304	308	340	325	266	2640	431	239	160
21	131	322	116	281	858	512	315	251	1860	371	227	313
22	131	217	120	266	635	432	307	241	1260	485	223	445
23	114	187	131	255	419	512	298	682	1060	574	211	278
24	111	171	148	244	343	571	291	312	876	552	206	212
25	105	158	196	234	310	451	283	265	654	406	201	467
26	104	149	147	226	294	395	274	247	588	390	212	1120
27	104	268	135	234	560	367	269	240	502	367	272	427
28	106	307	138	217	2160	343	261	226	518	321	213	334
29	105	236	147	210	---	328	264	216	518	304	214	768
30	103	207	159	216	---	342	258	213	453	303	213	2160
31	103	---	423	210	---	316	---	207	---	366	208	---
TOTAL	5646	5094	4604	11758	10282	16643	11901	9696	18549	13334	8072	10184
MEAN	182	170	149	379	367	537	397	313	618	430	260	339
MAX	774	322	423	892	2160	2170	812	682	2640	764	682	2160
MIN	83	99	115	210	190	306	258	207	196	295	201	160
CFSM	1.19	1.11	.97	2.48	2.40	3.51	2.60	2.05	4.04	2.81	1.70	2.22
IN.	1.37	1.24	1.12	2.86	2.50	4.05	2.89	2.36	4.51	3.24	1.96	2.48

CAL YR 1988	TOTAL	70996	MEAN	194	MAX	3060	MIN	59	CFSM	1.27	IN	17.26
WTR YR 1989	TOTAL	125763	MEAN	345	MAX	2640	MIN	83	CFSM	2.26	IN	30.58

02334430 CHATTAHOOCHEE RIVER AT BUFORD DAM, NEAR BUFORD, GA.

LOCATION.–Lat 34°09'25", long 84°04'44", Gwinnett-Forsyth County line, Hydrologic Unit 03130001, on right bank 1,200 ft downstream from Buford Dam, 2.4 mi upstream from bridge on State Highway 20, 4 mi northwest of Buford, and at mile 348.1.

DRAINAGE AREA.–1,040 mi^2, approximately.

PERIOD OF RECORD.–July to December 1901 (figures of daily discharge for the months of August and December, published in WSP 197, are unreliable and should not be used), October 1941 to current year. Prior to October 1971, published as 02334500, Chattahoochee River "near Buford". Monthly discharge only for July to December 1901, October 1941 to January 1942, published in WSP 1304.

REVISED RECORDS.–WRD GA-79-1: 1972-78 (maximum gage heights only). See also PERIOD OF RECORD.

GAGE.–Water-stage recorder. Datum of gage is 912.04 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). June 24 to Dec. 21, 1901, Jan. 27, 1942, to Dec. 3, 1944, nonrecording gage, and Dec. 4, 1944, to Dec. 31, 1947, water-stage recorder at site 2.5 mi downstream, and Jan. 1, 1948, to Sept. 30, 1971, water-stage recorder at site 2.4 mi downstream, all at different datum.

REMARKS.–No estimated daily discharges. Records fair. Flow regulated by Lake Sidney Lanier beginning January 1956 (See "Lakes and Reservoirs in Apalachicola River basin", station 02334400.)

AVERAGE DISCHARGE.–48 years, 2,064 ft^3/s, 26.95 in/yr, adjusted for storage since 1956.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 55,000 ft^3/s, Jan. 8, 1946, gage height, 32.6 ft, from floodmark, from rating curve extended above 13,000 ft^3/s on basis of peak flows passing upstream and downstream stations; minimum daily discharge, 26 ft^3/s, May 18, 1958.

EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known since at least 1921, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, 11,100 ft^3/s, Jan. 18, gage height, 7.89 ft; minimum daily discharge, 348 ft^3/s, Mar. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	867	1180	1100	731	722	365	360	1090	1120	569	4080	2620
2	472	1180	1110	1030	729	1080	358	378	944	384	3980	542
3	1210	1180	738	1040	1110	722	926	382	584	1120	4070	618
4	1180	1170	730	1040	361	358	364	1120	574	1120	4060	3140
5	1190	786	1070	1040	361	368	368	1130	1150	1110	365	3010
6	1190	779	1080	700	1110	363	364	477	385	1120	523	3010
7	1180	1170	1060	360	1110	362	741	580	522	1700	4200	3010
8	874	1180	1070	364	725	1070	364	1120	764	379	4080	3010
9	880	1160	1070	1130	721	1070	369	1130	1160	385	363	370
10	1320	1160	740	1120	729	1080	1130	567	570	1120	2940	372
11	1190	1180	737	1120	358	358	742	381	574	2060	2970	2590
12	1200	827	1060	362	445	358	744	1140	1150	1100	543	2640
13	781	785	1070	368	950	1100	368	379	1140	1090	463	2630
14	1180	1140	1070	364	929	1100	1120	394	1140	1110	3490	2620
15	758	1140	1070	367	921	1100	369	761	1120	441	1080	2640
16	752	1140	1070	1120	1110	727	371	757	390	630	2210	536
17	1290	1140	745	1120	1290	1100	1100	386	555	1470	1460	633
18	1180	1140	737	1350	360	361	1110	1130	374	1470	1460	2770
19	1180	780	1080	1110	361	357	1110	1130	379	1470	432	3000
20	1170	774	1070	729	1110	1110	1100	386	417	1470	634	3010
21	1180	1110	1060	362	885	731	1110	393	406	1470	3530	3040
22	770	1110	1070	468	1310	1090	370	1140	397	373	3410	3110
23	770	1110	1070	1210	1110	617	374	1140	396	387	3050	617
24	1230	1100	731	1100	1100	359	1090	1130	573	1840	4170	623
25	1180	1100	734	1110	361	357	1070	1130	379	1840	4180	3180
26	1170	782	1070	730	363	348	1070	1120	1130	1830	508	2980
27	1170	779	1060	722	1100	909	736	389	1100	1830	551	4070
28	1180	1110	1060	359	726	919	1110	477	1090	1830	2620	2980
29	934	1100	1080	470	—	919	372	1630	1540	451	2610	2960
30	877	1100	1060	1170	—	923	375	1120	1500	615	2610	436
31	1180	—	726	1110	—	927	—	1130	—	4200	2620	—
TOTAL	32685	31392	30198	25376	22467	22608	21155	25617	23523	37984	73262	66767
MEAN	1054	1046	974	819	802	729	705	826	784	1225	2363	2226
MAX	1320	1180	1110	1350	1310	1110	1130	1630	1540	4200	4200	4070
MIN	472	774	726	359	358	348	358	378	374	373	363	370
MEAN†	908	794	724	1697	1929	2427	1764	1472	3229	2448	1228	1955
CFSM†	.87	.76	.70	1.63	1.85	2.33	1.70	1.42	3.10	2.35	1.18	1.88
IN.†	1.00	.85	.87	1.88	1.93	2.69	1.90	1.64	3.46	2.71	1.36	2.10

CAL YR 1988 TOTAL 385135 MEAN 1052 MAX 1760 MIN 379 MEAN† 977 CFSM† .94 IN.† 12.77
WTR YR 1989 TOTAL 413034 MEAN 1132 MAX 4200 MIN 348 MEAN† 1711 CFSM† 1.65 IN.† 22.41

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02334885 SUWANEE CREEK NEAR SUWANEE, GA.

LOCATION.--Lat 34°01'56", long 84°05'22", Gwinnett County, Hydrologic Unit 03130001, on upstream side of right bank bridge pier on State Highway 13 (old U.S. Highway 23), 0.2 mi upstream from Bennett Creek, 0.6 mi downstream from Mill Creek, 2.4 mi southwest of Suwanee, and 3.1 mi upstream from mouth.

DRAINAGE AREA.--46.8 mi^2.

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 909.71 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 20 to Nov. 7, Nov. 30 to Dec. 15, Apr. 14-17. Records good, except those for the periods of estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--5 years, 46.6 ft^3/s, 13.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,150 ft^3/s, Nov. 26, 1986, gage height, 10.41 ft; minimum discharge, 0.80 ft^3/s, July 21, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 21	1000	*1,220	*9.01	Sept. 26	1400	577	7.34
July 4	2400	1,080	8.73				

Minimum discharge, 12.0 ft^3/s, Oct. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	25	32	59	26	96	44	59	21	44	69	27
2	117	21	30	42	26	66	43	127	20	42	122	27
3	118	19	28	47	25	60	46	47	21	221	56	25
4	124	19	26	47	25	57	77	40	22	410	45	23
5	51	33	24	38	28	97	247	41	27	733	40	22
6	41	28	24	42	33	73	92	56	34	291	38	25
7	36	23	23	40	43	59	68	40	64	168	35	26
8	33	24	25	36	35	52	100	37	32	104	32	26
9	27	25	28	36	30	50	125	75	36	80	32	24
10	25	23	27	45	28	48	74	95	32	67	31	23
11	23	23	27	39	27	46	64	54	27	57	30	75
12	20	21	26	37	27	44	57	45	24	51	30	53
13	18	21	25	66	26	43	54	40	24	48	30	30
14	17	21	24	49	26	42	50	39	27	44	29	27
15	16	21	23	50	26	41	58	63	33	48	29	43
16	15	22	23	43	25	41	50	44	153	133	33	51
17	14	36	23	38	25	39	50	38	260	222	30	28
18	13	28	22	36	29	39	47	35	67	69	28	25
19	20	28	23	34	34	38	46	34	46	86	27	24
20	16	25	24	33	35	37	43	34	274	210	26	24
21	25	24	24	31	190	92	42	36	914	146	26	24
22	25	22	24	30	103	80	41	33	201	177	25	356
23	20	21	26	29	59	147	40	31	159	130	24	105
24	20	21	29	29	50	108	39	30	89	90	24	48
25	18	21	28	28	46	67	38	28	65	70	21	132
26	18	21	26	27	44	56	37	28	54	61	72	468
27	18	57	25	34	46	51	35	27	47	55	175	115
28	18	69	26	29	203	48	35	25	57	50	42	116
29	18	37	28	27	—	47	34	24	82	45	33	165
30	18	36	28	28	---	59	34	23	50	44	30	279
31	19	---	51	28	---	49	—	22	---	46	28	---
TOTAL	984	815	822	1177	1320	1872	1810	1350	2962	4042	1292	2436
MEAN	31.7	27.2	26.5	38.0	47.1	60.4	60.3	43.5	98.7	130	41.7	81.2
MAX	124	69	51	66	203	147	247	127	914	733	175	468
MIN	13	19	22	27	25	37	34	22	20	42	21	22
CFSM	.68	.58	.57	.81	1.01	1.29	1.29	.93	2.11	2.78	.89	1.74
IN.	.78	.65	.65	.94	1.05	1.49	1.44	1.07	2.35	3.21	1.03	1.94

CAL YR 1988	TOTAL	12268.6	MEAN	33.5	MAX	584	MIN	1.0	CFSM	.72	IN	9.75
WTR YR 1989	TOTAL	20882.0	MEAN	57.2	MAX	914	MIN	13	CFSM	1.22	IN	16.60

02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA.

LOCATION.--Lat 33°59'50", long 84°12'07", Gwinnett-Fulton County line, Hydrologic Unit 03130001, on downstream side of right bank pier of bridge on State Highway 141, 1.5 mi upstream from John Creek, 4.5 mi north of Norcross, 6.5 mi downstream from Suwanee Creek, 18 mi downstream from Buford Dam, and at mile 330.8.

DRAINAGE AREA.--1,170 mi^2, approximately.

PERIOD OF RECORD.--October 1902 to September 1946, October 1956 to current year. Monthly discharge only for October to December 1902, published in WSP 1304. Gage-height records collected at same site 1910-33, and since 1945 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 878.14 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 13, 1955, nonrecording gage at site 500 ft downstream at same datum. July 14, 1955 to Mar. 11, 1957, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good to fair for the period June 20 to Sept. 30, and fair for the period Oct. 1 to June 19. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversion and return flow above station regulated by Gwinnett County.

AVERAGE DISCHARGE.--77 years (water years 1903-46, 1957-89), 2,265 ft^3/s, 26.29 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft^3/s, Jan. 8, 1946, gage height, 27.7 ft, from rating curve extended above 36,000 ft^3/s on basis of computation of peak flow over Morgan Falls Dam; minimum observed, 132 ft^3/s, Aug. 25, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1896, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,010 ft^3/s, Aug. 1, 2, gage height, 10.35 ft; minimum daily, 483 ft^3/s, June 29, Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	909	1260	1170	913	1210	773	1030	1170	1250	1060	4560	2920
2	1210	1240	1160	729	872	1350	508	957	1170	669	4640	1390
3	1470	1230	983	1270	963	987	533	538	855	1160	4530	713
4	1840	1230	765	1300	1130	578	1160	836	707	1850	4490	2630
5	1380	999	908	1240	494	718	1080	1310	901	2520	2250	3290
6	1320	909	1080	1230	1280	662	664	1070	997	1840	582	3320
7	1290	1220	1090	848	1390	582	588	719	616	2060	3230	3320
8	925	1250	1090	508	946	1280	1040	986	646	1250	4450	3320
9	868	1230	1080	574	879	1320	804	1460	1140	641	1910	1340
10	934	1210	928	1390	875	1330	993	1190	992	1010	2200	483
11	1330	1240	756	1380	504	572	1320	579	665	1770	3280	2140
12	1320	1070	892	1300	490	519	929	956	1050	1910	1650	2930
13	1250	833	1080	617	1070	885	566	842	1350	1300	819	2920
14	900	961	1080	575	628	1270	892	565	1290	1280	2210	2910
15	1300	1180	1090	568	864	1260	937	1010	1420	876	2210	2950
16	753	1210	1090	620	1080	897	549	897	1470	1400	1990	1460
17	893	1210	929	2080	1570	1210	568	538	1090	2170	2490	664
18	1270	1210	757	1600	1080	865	1350	973	682	1860	1680	2480
19	1260	1010	914	1380	507	490	1360	1230	546	1920	893	3090
20	1280	818	1090	941	1310	647	1350	770	1380	2230	663	3300
21	1310	944	1080	516	1440	1400	1340	513	2140	2160	2890	3280
22	1230	1150	1090	501	2080	1130	1280	959	1080	1440	3700	3990
23	780	1150	1110	1430	1470	1800	522	1280	762	815	3360	1770
24	1110	1150	953	1320	1380	890	1100	1260	685	1610	4210	754
25	1220	1140	768	1310	585	600	1270	1260	682	2250	4530	2710
26	1220	993	766	905	528	553	1250	1250	1020	2220	2040	4270
27	1210	916	1130	893	1300	586	812	783	1280	2190	1270	4580
28	1210	1090	1170	512	1500	1050	945	488	1290	2170	2130	3780
29	912	1190	1170	483	—	1130	1020	1330	1860	1240	2930	3780
30	938	1180	1200	1390	—	1110	523	1280	1810	768	2920	2460
31	1210	—	1270	705	—	1100	—	1240	—	3080	2920	---
TOTAL	36052	33423	31639	31028	29425	29544	28283	30239	32826	50719	83427	78944
MEAN	1163	1114	1021	1001	1051	953	943	975	1094	1636	2691	2631
MAX	1840	1260	1270	2080	2080	1800	1360	1460	2140	3080	4640	4580
MIN	753	818	756	483	490	490	508	488	546	641	582	483

CAL YR 1988	TOTAL	418993	MEAN	1145	MAX	3270	MIN	493	MEAN†	1070	CFSM†	.91	IN†	12.36
WTR YR 1989	TOTAL	495549	MEAN	1358	MAX	4640	MIN	483	MEAN†	1937	CFSM†	1.66	IN†	22.54

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02335450 CHATTAHOOCHEE RIVER ABOVE ROSWELL, GA.

LOCATION.--Lat 33°59'09", long 84°18'58", Fulton County, Hydrologic Unit 03130001, on right bank at Eves Road, 3.3 mi upstream from Big Creek, and 2.2 mi upstream from State Highway 400, 3.6 mi southeast of Roswell, and at mile 320.6.

DRAINAGE AREA.--1,220 mi^2, approximately.

PERIOD OF RECORD.--October 1941 to May 1960 (published as 02335500, Chattahoochee River "near Roswell"), July 1976 to current year

GAGE.--Water-stage recorder. Datum of gage is 858.01 ft above National Geodetic Vertical Datum of 1929. Prior to July 7, 1976, at site 1.8 mi downstream at datum 8.51 ft lower.

REMARKS.--Estimated daily discharges: Sept. 5-21. Records good, except those for the period of estimated daily discharges, which are poor. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett and DeKalb Counties; return flows above station by Gwinnett County.

AVERAGE DISCHARGE.--31 years (water years 1942-59, 1977-89), 2,029 ft^3/s, 22.59 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,000 ft^3/s, Jan. 8, 1946, from rating curve extended above 30,000 ft^3/s basis of computation of peak flow over Morgan Falls Dam 6 miles downstream, gage height, 23.4 ft from floodmark (site and datum then in use); minimum daily discharge, 315 ft^3/s, Aug. 11, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,810 ft^3/s, Aug. 2, gage height, 7.81 ft; minimum daily discharge, 323 ft^3/s, May 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1110	1190	1090	893	1150	890	923	843	1030	1300	4270	2580
2	1460	1150	1090	712	763	1080	383	1100	1010	617	4580	1910
3	1690	1140	989	1210	765	966	421	420	825	847	4300	567
4	2120	1140	678	1230	1150	635	1060	359	522	1650	4260	1600
5	1320	1180	789	1140	421	774	1230	1110	567	2390	3170	2850
6	1200	851	1020	1160	965	768	703	1170	1120	1820	415	3200
7	1140	988	1010	789	1300	572	520	556	447	1660	1790	3200
8	1140	1210	1010	426	903	988	1080	619	507	1650	3960	3200
9	777	1180	995	461	788	1160	880	1340	778	563	2660	1600
10	776	1080	869	1300	792	1150	852	1310	1100	680	1000	350
11	1260	1190	696	1260	505	623	1190	544	554	1220	2950	1100
12	1220	1040	742	1270	382	414	800	530	582	2030	2310	2500
13	1140	765	982	656	820	628	533	950	1120	1120	522	2800
14	689	777	980	544	613	1130	665	514	1120	1080	965	2800
15	1170	1100	989	531	792	1130	912	944	1320	1050	2940	2800
16	630	1150	1010	487	891	889	439	780	1930	1940	1110	1600
17	648	1130	869	1790	1300	968	390	508	1120	2240	2430	500
18	1140	1090	655	1420	1100	870	1030	606	713	1660	1460	1400
19	1160	1060	801	1300	446	379	1070	1050	472	1870	1180	2800
20	1100	737	996	914	990	356	1060	836	1440	2560	453	3100
21	1230	802	986	500	1440	1390	1060	387	2390	2130	1760	3100
22	1260	1070	1010	405	2050	1030	1110	464	1370	1860	3400	3910
23	694	1050	1040	1140	1380	1990	369	1060	769	778	3150	2540
24	943	1090	901	1160	1220	1090	612	1050	567	862	3720	651
25	1130	1060	707	1180	658	591	1060	1050	673	2030	4120	1930
26	1100	1040	651	832	424	480	1030	1040	571	2020	2850	4540
27	1140	981	1040	838	969	445	773	918	1070	1940	1450	4170
28	1080	1020	1070	546	1650	898	680	323	1250	1900	1230	3890
29	875	1130	1100	379	—	892	995	702	1420	1640	2680	3720
30	861	1120	1080	1090	—	963	465	1160	1560	554	2700	3570
31	1070	—	1290	622	—	953	—	1020	—	1800	2680	---
TOTAL	34273	31511	29135	28185	26627	27092	24295	25263	29917	47461	76465	74478
MEAN	1106	1050	940	909	951	874	810	815	997	1531	2467	2483
MAX	2120	1210	1290	1790	2050	1990	1230	1340	2390	2560	4580	4540
MIN	630	737	651	379	382	356	369	323	447	554	415	350

CAL YR 1988	TOTAL	389219	MEAN	1063	MAX	3410	MIN	331	MEAN†	988	CFSM†	.81	IN†	11.00
WTR YR 1989	TOTAL	454702	MEAN	1246	MAX	4580	MIN	323	MEAN†	1825	CFSM†	1.50	IN†	20.37

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02335700 BIG CREEK NEAR ALPHARETTA, GA.

LOCATION.--Lat 34°03'02", long 84°16'10", Fulton County, Hydrologic Unit 03130001, on left bank at downstream side of bridge on Kimball Bridge Road (revised), 2.6 mi southeast of Alpharetta, and 9.4 mi upstream from mouth.

DRAINAGE AREA.--72 mi^2, approximately.

PERIOD OF RECORD.--May 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 960.80 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Soil Conservation Service).

REMARKS.--Estimated daily discharges: July 20-24. Records good, except those less than 50 ft^3/s, which are fair and those for the periods of estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--29 years, 110 ft^3/s, 20.75 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,100 ft^3/s, Feb. 3, 1982, gage height, 13.05 ft; minimum daily, 1.7 ft^3/s, July 22, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 967 ft^3/s, Sept. 30, stage rising, peak occurred Oct. 2, 1989; maximum peak discharge, 652 ft^3/s, June 23, gage height, 6.72 ft, no peak discharges greater than base discharge of 800 ft^3/s; minimum daily discharge, 22 ft^3/s, Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	55	40	163	47	317	68	80	29	57	113	40
2	192	41	37	112	45	145	64	85	29	53	93	38
3	233	36	35	132	44	116	69	56	41	96	65	33
4	312	35	33	222	44	112	127	49	46	138	52	30
5	124	86	32	103	51	325	306	66	102	235	45	28
6	70	66	32	95	68	292	168	97	163	154	40	30
7	53	46	32	83	110	173	121	60	78	92	37	33
8	45	40	32	72	83	129	176	50	55	77	33	31
9	40	45	35	72	61	108	246	143	65	64	33	29
10	37	40	30	123	54	97	147	183	68	58	31	28
11	34	41	28	103	51	93	114	93	47	50	30	27
12	32	36	28	92	50	85	99	70	40	46	30	39
13	29	36	27	199	50	80	90	61	65	65	30	28
14	28	36	27	168	49	79	85	59	62	48	30	27
15	28	34	27	138	45	77	94	87	132	42	33	27
16	28	35	27	105	43	70	85	63	311	108	34	38
17	28	47	26	85	43	66	75	54	319	184	30	29
18	27	38	25	76	55	66	70	48	122	79	29	25
19	38	33	25	69	74	63	67	46	97	73	28	24
20	31	36	25	64	163	61	64	52	315	90	27	23
21	55	53	26	60	413	138	62	53	458	115	26	24
22	54	37	26	56	457	128	60	46	551	100	25	136
23	38	34	30	54	169	229	56	47	512	90	27	113
24	37	33	39	52	107	256	54	42	181	81	23	53
25	33	32	39	51	89	136	53	42	114	75	22	99
26	31	32	31	49	81	105	50	38	87	78	137	284
27	32	55	31	55	85	92	46	36	72	65	261	120
28	32	84	32	50	351	83	44	35	66	56	96	100
29	31	54	38	47	—	79	45	32	65	50	58	274
30	32	44	34	50	—	83	46	32	61	46	47	430
31	36	—	98	50	—	78	—	31	—	123	44	—
TOTAL	1843	1320	1027	2850	2982	3961	2851	1936	4353	2688	1609	2240
MEAN	59.5	44.0	33.1	91.9	107	128	95.0	62.5	145	86.7	51.9	74.7
MAX	312	86	98	222	457	325	306	183	551	235	261	430
MIN	23	32	25	47	43	61	44	31	29	42	22	23
CFSM	.83	.61	.46	1.28	1.49	1.78	1.32	.87	2.01	1.20	.72	1.04
IN.	.95	.68	.53	1.47	1.54	2.05	1.47	1.00	2.25	1.39	.83	1.16

CAL YR 1988 TOTAL 20973.6 MEAN 57.3 MAX 1590 MIN 1.9 CFSM .80 IN 10.84
WTR YR 1989 TOTAL 29660.0 MEAN 81.3 MAX 551 MIN 22 CFSM 1.13 IN 15.32

02335810 CHATTAHOOCHEE RIVER AT MORGAN FALLS DAM AT SANDY SPRINGS, GA.

LOCATION.–Lat 33°58'06", long 84°22'58", Fulton County, Hydrologic Unit 03130001, on upstream side of Morgan Falls Dam, 3.9 mi upstream from mouth of Sope Creek at river mile 312.6.

DRAINAGE AREA.–1,370 mi^2, approximately.

PERIOD OF RECORD.–June 1988 to current year.

GAGE.–Water-stage recorder. Datum of gage is 842.55 ft above National Geodetic Vertical Datum of 1929 (leveling by Global Positioning System from city of Atlanta benchmark); gage readings have been reduced to elevations about National Geodetic Vertical Datum of 1929

REMARKS.–Flow regulated by Lake Sidney Lanier since January 1956. (See Lakes and Reservoirs in Apalachicola Basin", station 02334400.)

EXTREMES FOR CURRENT PERIOD.–June to September 1988: Maximum elevation, 852.66 ft, Sept. 14; minimum elevation, 845.77 ft, Sept. 28.

Water year 1989: Maximum elevation, 852.90 ft, Sept. 30; minimum elevation, 845.60 ft, Sept. 11.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									—	851.74	851.84	851.66
2									—	851.94	851.80	851.71
3									—	851.87	851.80	851.94
4									—	851.68	851.82	852.31
5									—	851.88	851.77	852.19
6									—	851.80	851.89	850.62
7									—	851.75	852.23	851.36
8									—	851.88	851.56	852.00
9									—	852.06	851.72	852.03
10									—	852.01	851.69	852.21
11									—	851.49	851.71	851.37
12									—	851.85	851.78	851.01
13									—	851.65	852.12	851.73
14									—	851.74	851.98	852.19
15									—	851.80	851.41	851.83
16									—	852.03	851.94	851.90
17									—	852.10	851.96	852.29
18									—	851.50	851.85	852.24
19									—	851.87	851.76	851.83
20									—	851.89	852.27	851.99
21									—	851.87	852.32	852.02
22									851.80	852.09	850.79	852.04
23									851.73	852.44	851.37	851.98
24									851.79	852.38	851.87	852.10
25									852.14	850.79	851.75	850.57
26									852.28	850.95	851.94	847.87
27									851.70	851.70	852.18	848.12
28									851.85	851.72	851.27	848.03
29									851.77	851.68	849.56	850.37
30									851.84	852.08	850.20	851.31
31									—	852.10	851.13	—
MEAN									—	851.82	851.65	851.36
MAX									—	852.44	852.32	852.31
MIN									—	850.79	849.56	847.87

02335810 CHATTAHOOCHEE RIVER AT MORGAN FALLS DAM AT SANDY SPRINGS, GA.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	852.02	852.36	852.30	852.51	850.67	852.50	852.28	850.96	851.89	852.18	850.50	851.17
2	852.39	852.28	852.30	852.48	851.08	852.40	851.68	852.44	852.25	851.84	850.95	852.21
3	852.25	852.39	852.33	852.29	850.78	852.53	850.47	851.88	852.11	850.98	850.53	851.89
4	851.73	852.33	851.77	852.18	851.40	852.45	850.61	850.15	851.28	851.82	850.42	849.88
5	851.25	852.46	850.96	852.20	850.90	852.19	852.39	850.12	850.54	851.93	852.09	850.73
6	852.04	852.32	851.03	852.24	849.74	852.42	852.55	852.12	852.01	851.52	851.79	851.00
7	851.93	851.99	851.44	852.40	851.65	852.51	852.49	851.91	851.81	851.53	849.52	851.09
8	852.20	852.26	851.72	851.67	852.48	852.16	852.37	851.22	850.63	852.38	851.47	850.96
9	851.97	852.09	852.04	850.25	852.37	852.23	852.47	851.94	849.82	852.15	852.16	852.19
10	851.61	852.25	852.26	851.02	852.24	852.45	852.38	852.12	851.00	851.39	850.23	850.95
11	851.85	852.48	851.84	852.22	851.99	852.45	852.45	852.34	850.73	850.98	850.79	847.50
12	851.77	852.51	851.19	852.30	850.59	851.63	852.33	851.41	849.17	851.34	852.06	850.75
13	851.73	852.34	851.14	852.50	848.87	850.36	852.35	851.93	849.55	851.68	851.55	850.99
14	851.48	851.90	851.46	852.40	849.55	851.18	851.65	851.36	850.94	851.91	849.35	850.75
15	851.74	852.12	851.77	851.88	849.23	852.30	852.32	851.75	851.94	852.27	851.58	850.84
16	851.75	852.34	852.08	851.09	849.66	852.43	852.07	852.30	852.20	852.02	850.54	852.20
17	851.00	852.28	852.30	851.59	850.91	852.23	850.89	852.21	852.36	851.46	850.94	851.58
18	851.33	852.37	851.80	852.37	852.43	852.41	850.59	851.23	852.37	851.33	851.32	849.81
19	851.86	852.43	851.12	852.20	852.09	851.64	851.52	851.89	851.46	851.68	852.08	851.00
20	851.69	852.05	851.25	852.40	851.52	850.13	852.04	852.41	851.19	851.51	851.26	850.99
21	851.97	851.53	851.55	852.11	852.28	851.30	852.10	851.58	851.80	851.46	849.38	851.13
22	852.29	851.74	851.92	850.60	851.93	852.37	852.20	849.96	852.23	852.38	850.65	851.17
23	852.12	852.09	852.28	849.07	851.99	852.30	851.52	850.43	852.50	852.41	850.54	852.32
24	851.61	852.29	852.49	851.13	852.21	852.55	849.71	851.40	852.44	851.15	850.76	852.10
25	852.08	852.29	852.04	852.10	852.34	852.49	850.27	851.85	852.37	851.04	850.59	850.86
26	852.37	852.41	851.40	852.12	851.49	852.17	851.28	852.27	851.87	851.02	852.36	852.07
27	852.45	852.49	851.31	852.03	850.61	851.46	851.96	852.36	852.26	850.86	852.48	851.17
28	852.44	852.44	851.72	851.92	852.43	851.61	851.49	851.19	852.31	850.85	851.21	851.32
29	852.48	852.34	852.24	850.43	—	852.11	851.85	848.45	851.82	851.92	851.04	851.42
30	852.24	852.11	852.44	848.56	—	852.12	851.19	850.63	851.42	851.61	851.14	852.28
31	851.97	—	852.49	850.35	—	852.07	—	851.37	—	849.91	851.06	—
MEAN	851.92	852.24	851.81	851.63	851.27	852.04	851.72	851.46	851.54	851.56	851.04	851.14
MAX	852.48	852.51	852.49	852.51	852.48	852.55	852.55	852.44	852.50	852.41	852.48	852.32
MIN	851.00	851.53	850.96	848.56	848.87	850.13	849.71	848.45	849.17	849.91	849.35	847.50

WTR YR 1989 MEAN 851.62 MAX 852.55 MIN 847.50

02335870 SOPE CREEK NEAR MARIETTA, GA.

LOCATION.--Lat 33°57'14", long 84°26'36", Cobb County, Hydrologic Unit 03130001, on downstream side of bridge on Lower Roswell Road (South Roswell Road), 0.3 mi downstream from Bishop Creek, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--29.2 mi^2, approximately.

PERIOD OF RECORD.--October 1984 to current year. Occasional low-flow measurements, water years 1944, 1951, 1953-55, 1957, 1961).

GAGE.--Water-stage recorder. Datum of gage is 881.37 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Oct. 6-17, June 24-27, July 17-24, and Aug. 27 to Sept. 5. Records fair.

AVERAGE DISCHARGE.--5 years, 40.0 ft^3/s, 18.60 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,630 ft^3/s, Sept. 30, 1989, gage height, 16.22 ft; minimum daily discharge, 0.79 ft^3/s, July 20, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since 1948, 21.1 ft, Mar. 30, 1977, from floodmark, present site and datum, discharge unknown. Flood of Feb. 4, 1982 reached a stage of 20.0 ft, discharge unknown.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 2	1015	1,040	8.36	June 22	1145	1,500	9.75
Feb. 21	0845	1,070	8.50	July 16	2200	4,760	13.87
June 20	0400	924	7.82	Sept. 30	2245	*6,630	*16.22
June 21	1145	3,890	12.79				

Minimum daily discharge, 8.5 ft^3/s, Oct. 25, 26.

REVISIONS.--The peak discharges and annual maximum (*) reported for water years 1985-1988 have been revised as shown in the following table. They supercede figures published in the reports for 1985-88:

Water year	Date	Time	Discharge (ft^3/s)	Gage height (ft)
1985	May 2	0715	1,320	9.34
	June 8	0015	1,650	9.97
	Aug. 17	0845	*2,140	*10.61
1986	May 28	2200	*1,370	*9.48
1987	Oct. 25	1900	*3,270	*12.01
	Jan. 18	2200	2,000	10.44
	Feb. 28	2030	2,010	10.45
1988	Jan. 20	0430	*1,820	*10.21
	Apr. 12	0330	1,470	9.70
	July 23	0215	1,520	9.78

Revised daily discharge, in cubic feet per second, for October 1987 is given below. These figures supercede those published in the report for 1987:

Oct. 25...........1,100

	TOTAL	MEAN	MAX	MIN	CSFM	IN
OCT 1986	2472.3	79.8	1100	1.1	2.73	3.15
CAL YR 1986	10735.19	29.4	1100	0.89	1.01	13.68
WTR YR 1987	17703.80	48.5	1100	1.1	1.66	22.55

02335870 SOPE CREEK NEAR MARIETTA, GA.–Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	22	13	51	16	60	26	130	24	27	101	19
2	431	11	12	20	16	42	26	40	29	29	143	17
3	224	10	12	142	16	42	56	25	33	106	36	16
4	45	10	12	36	16	90	205	23	26	52	30	15
5	27	72	12	23	31	147	251	112	90	71	28	13
6	22	13	12	26	22	242	56	44	109	49	26	23
7	19	11	12	19	104	53	46	28	34	34	24	17
8	17	20	12	23	27	42	229	26	29	31	23	15
9	15	14	12	30	22	37	97	186	31	114	22	13
10	14	13	13	55	20	35	50	114	28	104	21	13
11	13	15	12	27	20	34	40	35	28	35	20	13
12	12	11	12	32	19	33	36	29	28	41	20	13
13	12	17	12	134	18	32	33	28	40	77	20	14
14	11	12	12	33	18	31	30	62	29	37	62	20
15	10	12	12	39	18	30	47	50	124	28	266	20
16	9.8	12	12	25	18	32	31	28	259	1170	82	28
17	9.8	24	12	22	18	29	28	28	57	315	33	13
18	9.9	12	12	21	33	29	27	27	37	102	28	13
19	22	12	12	19	32	27	26	27	38	177	27	12
20	9.1	27	12	19	89	27	25	38	471	267	26	11
21	67	14	12	18	369	166	24	27	993	119	25	13
22	13	12	12	17	70	76	24	27	506	86	25	131
23	10	12	20	17	44	254	24	26	114	59	25	27
24	9.9	12	14	17	35	69	23	25	54	40	36	16
25	8.5	12	13	17	33	44	22	25	41	62	30	323
26	8.5	12	12	16	32	37	21	25	34	70	69	166
27	8.9	50	12	29	58	33	20	25	28	44	53	34
28	9.1	31	17	18	318	31	21	25	32	33	24	278
29	8.9	15	14	16	---	29	20	24	30	30	23	167
30	8.8	13	26	22	---	43	24	24	29	29	21	1870
31	38	---	58	17	---	28	---	24	---	57	22	---
TOTAL	1167.2	533	452	1000	1532	1904	1588	1357	3405	3495	1391	3343
MEAN	37.7	17.8	14.6	32.3	54.7	61.4	52.9	43.8	114	113	44.9	111
MAX	431	72	58	142	369	254	251	186	993	1170	266	1870
MIN	8.5	10	12	16	16	27	20	23	24	27	20	11
CFSM	1.29	.61	.50	1.11	1.87	2.10	1.81	1.50	3.90	3.87	1.54	3.80
IN.	1.49	.68	.58	1.27	1.95	2.43	2.02	1.73	4.34	4.45	1.77	4.26

CAL YR 1988 TOTAL 10968.02 MEAN 30.0 MAX 548 MIN .79 CFSM 1.03 IN 13.97
WTR YR 1989 TOTAL 21167.20 MEAN 58.0 MAX 1870 MIN 8.5 CFSM 1.99 IN 26.97

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°51'33", long 84°27'16", Fulton-Cobb County line, Hydrologic Unit 03130001, on left bank 20 ft upstream from Paces Ferry Bridge, at Atlanta, 1 mi downstream from Rottenwood Creek, 2.5 mi upstream from Peachtree Creek, and at mile 303.0.

DRAINAGE AREA.--1,450 mi^2, approximately.

PERIOD OF RECORD.--August 1928 to December 1931, October 1936 to current year. Prior to October 1951, published as "near Vinings".

REVISED RECORDS.--WSP 972: 1932.

GAGE.--Water-stage recorder. Datum of gage is 750.10 ft above National Geodetic Vertical Datum of 1929. Aug. 3, 1928, to Dec. 31, 1931, water-stage recorder, and Nov. 15, 1936 to Mar. 8, 1937, nonrecording gage at same site and datum. Since June 1967, auxiliary water-stage recorder at bridge on U.S. Highway 41, 0.8 mi upstream.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant 9.5 mi above station. Records of chemical analyses for the water years 1974-79 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--56 years (water years 1929-31, 1937-89), 2,524 ft^3/s, 23.64 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,000 ft^3/s, Jan. 9, 1946, gage height, 28.0 ft; minimum daily, 296 ft^3/s, Sept. 2, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1896, 29.0 ft in December 1919, from floodmarks at site 2.6 mi downstream and stage relation between the two sites.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,900 ft^3/s, Sept. 30, stage rising, peak stage occurred Oct. 1, 1989; maximum peak discharge, 12,500 ft^3/s, July 17, gage height, 11.82 ft; minimum daily discharge, 857 ft^3/s, Feb. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	1300	1120	1350	912	1920	1140	1410	976	1450	4630	2570
2	2930	1220	1210	1090	916	1330	993	1380	1040	1110	4840	1980
3	2250	1220	1130	1750	922	1370	1030	1000	1090	1340	4320	906
4	3630	1200	1030	1680	930	1280	1470	1030	954	2100	4170	1250
5	1630	1740	993	1300	971	1700	2690	1250	1140	2840	3240	2830
6	1340	1040	989	1300	939	1760	1410	1120	1430	2790	956	2930
7	1300	1020	992	1020	1160	1130	1030	983	1120	1910	1280	2960
8	1090	1250	989	957	1210	1150	1980	931	1020	1790	3690	3000
9	976	1470	989	987	1020	1390	1850	1880	1050	1100	3540	2220
10	969	1040	996	1040	932	1400	1330	2100	950	1600	1180	1020
11	1230	1240	980	1400	925	1260	1520	1110	921	1230	2640	901
12	1340	1190	964	1360	880	951	1250	951	952	2170	2320	2200
13	1090	1010	965	1390	874	990	1020	940	1110	1590	988	2640
14	972	983	965	1050	908	980	965	994	1070	1260	1050	2610
15	905	969	968	1060	881	1140	1140	1020	1840	1120	3220	2720
16	886	1220	968	990	857	1290	967	908	3850	3260	1800	2170
17	906	1250	969	1050	884	1100	1020	925	2270	5480	2080	1040
18	944	1100	961	1460	1150	1160	1050	863	1320	2180	1550	1130
19	1220	1190	953	1600	938	941	1060	873	1250	2260	1070	2560
20	1200	1060	942	1150	964	921	1190	1190	3280	5080	899	2970
21	1400	1020	956	956	3310	1410	1260	903	6210	2800	1110	2900
22	1250	998	962	921	2810	1810	1260	941	4210	2210	3210	4070
23	949	1010	1000	899	1940	2940	978	950	2010	1280	3250	3120
24	942	1160	1090	912	1480	2140	977	986	1320	1600	3050	1050
25	1000	1100	988	997	1200	1130	1050	1030	1050	2180	4150	2600
26	1090	1100	982	1170	985	988	992	1080	1020	2470	3100	5270
27	1190	1310	962	993	1040	965	981	1100	1260	2190	2720	4200
28	1130	1400	994	934	2750	953	967	910	1490	2080	1670	4890
29	1110	1330	987	907	—	1020	951	964	2010	1360	2560	4300
30	935	1270	1210	948	—	1420	997	962	1900	1060	2550	8080
31	1210	—	1560	974	—	1180	—	977	—	1480	2720	—
TOTAL	40054	35410	31764	35595	34688	41119	36518	33661	51113	64370	79553	83087
MEAN	1292	1180	1025	1148	1239	1326	1217	1086	1704	2076	2566	2770
MAX	3630	1740	1560	1750	3310	2940	2690	2100	6210	5480	4840	8080
MIN	886	969	942	899	857	921	951	863	921	1060	899	901

CAL YR 1988	TOTAL	455385	MEAN	1244	MAX	6220	MIN	866	MEAN†	1169	CFSM†	81	IN†	11.00
WTR YR 1989	TOTAL	566932	MEAN	1553	MAX	8080	MIN	857	MEAN†	2132	CFSM†	1 47	IN†	19.96

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02336300 PEACHTREE CREEK AT ATLANTA, GA.

LOCATION.--Lat 33°49'10", long 84°24'28", Fulton County, Hydrologic Unit 03130001, on downstream side of center pier (revised) of bridge on Northside Drive at Atlanta, 0.4 mi downstream from Tanyard Branch, and 4 mi upstream from mouth.
DRAINAGE AREA.--86.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1958 to current year.
GAGE.--Water-stage recorder. Datum of gage is 763.96 ft above National Geodetic Vertical Datum of 1929 (City of Atlanta benchmark.) Prior to May 27, 1963, water-stage recorder at site 1,000 ft downstream at same datum.
REMARKS.--No estimated daily discharges. Records fair.
AVERAGE DISCHARGE.--31 years, 134 ft^3/s, 20.96 in/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,660 ft^3/s, Mar. 16, 1976, gage height, 20.30 ft; minimum daily discharge, 6.0 ft^3/s, Oct. 3, 4, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater tham base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 2	1100	3,240	12.07	July 16	2215	3,440	12.44
Apr. 5	0030	2,800	11.24	July 20	0115	3,350	12.28
May 1	1545	2,890	11.41	July 20	1730	4,080	13.54
May 14	1930	3,590	12.70	Sept. 15	1445	5,970	16.41
June 16	1245	3,560	12.65	Sept. 25	2330	3,620	12.76
June 19	0015	3,600	12.72	Sept. 30	2015	*8,310	*19.47
June 20	1715	4,310	13.91				

Minimum daily discharge, 13 ft^3/s, Oct. 1.

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	111	25	172	29	92	27	1070	101	59	114	41
2	1290	25	22	68	27	68	24	218	26	38	139	30
3	161	18	22	393	26	153	123	63	22	1090	50	26
4	269	100	20	109	26	101	472	44	48	222	39	23
5	45	733	18	58	69	218	956	229	40	316	35	22
6	30	66	18	94	61	231	113	188	170	272	34	67
7	24	33	17	59	194	56	95	49	108	82	31	52
8	21	35	17	56	44	41	473	36	32	46	29	31
9	19	35	17	57	29	35	286	500	46	38	29	26
10	18	33	17	83	26	33	127	657	28	86	29	23
11	17	52	16	56	24	30	68	81	23	30	28	71
12	16	21	16	110	23	29	50	51	20	76	27	62
13	15	20	15	356	21	27	45	40	40	48	26	36
14	14	18	16	72	20	26	38	574	51	60	27	26
15	14	17	17	93	20	25	222	274	490	346	280	1480
16	14	48	16	49	19	23	54	49	1520	881	62	365
17	14	166	16	40	27	24	39	39	232	821	52	83
18	17	32	15	37	79	21	33	41	232	103	36	67
19	55	21	15	35	60	20	30	41	604	424	30	68
20	18	24	15	33	53	22	27	96	2300	2310	29	61
21	179	22	15	32	944	401	26	48	985	501	27	65
22	40	17	15	31	132	233	25	35	477	256	26	704
23	21	17	38	30	65	787	23	36	306	188	26	143
24	17	17	32	29	49	162	23	30	347	90	53	86
25	16	16	27	28	41	64	22	28	70	81	158	1200
26	16	16	17	28	38	46	21	27	58	333	110	974
27	16	604	15	47	52	39	20	25	53	106	216	135
28	16	152	19	33	568	35	27	23	520	54	42	612
29	16	42	21	28	---	31	22	22	226	47	34	458
30	15	30	69	42	---	109	180	22	45	118	32	2710
31	145	---	261	36	---	37	---	22	---	218	37	---
TOTAL	2581	2541	879	2394	2766	3219	3691	4658	9220	9340	1887	9747
MEAN	83.3	84.7	28.4	77.2	98.8	104	123	150	307	301	60.9	325
MAX	1290	733	261	393	944	787	956	1070	2300	2310	280	2710
MIN	13	16	15	28	19	20	20	22	20	30	26	22
CFSM	.96	.98	.33	.89	1.14	1.20	1.42	1.73	3.54	3.47	.70	3.74
IN.	1.11	1.09	.38	1.03	1.19	1.38	1.58	2.00	3.95	4.00	.81	4.18

CAL YR 1988 TOTAL 29707.7 MEAN 81.2 MAX 2240 MIN 6.2 CFSM .94 IN 12.73
WTR YR 1989 TOTAL 52923.0 MEAN 145 MAX 2710 MIN 13 CFSM 1.67 IN 22.68

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.85	3.69	3.08	3.99	2.96	3.63	3.08	6.72	3.39	3.57	3.81	3.21
2	7.60	3.08	3.04	3.38	2.94	3.48	3.04	4.22	3.01	3.39	3.95	3.08
3	4.00	2.98	3.04	4.83	2.93	3.96	3.69	3.44	2.96	6.88	3.40	3.03
4	4.38	3.30	3.00	3.63	2.93	3.61	4.87	3.27	3.22	4.42	3.30	2.98
5	3.30	5.91	2.98	3.30	3.37	4.23	6.59	4.09	3.16	4.75	3.25	2.95
6	3.14	3.44	2.97	3.54	3.30	4.31	3.76	4.13	3.91	4.63	3.22	3.39
7	3.07	3.17	2.96	3.31	4.08	3.38	3.66	3.31	3.64	3.76	3.19	3.29
8	3.02	3.19	2.96	3.27	3.22	3.25	5.01	3.18	3.10	3.50	3.16	3.08
9	2.99	3.18	2.96	3.28	3.05	3.19	4.50	5.23	3.24	3.40	3.15	3.01
10	2.97	3.13	2.96	3.50	3.01	3.15	3.84	5.68	3.04	3.73	3.15	2.98
11	2.95	3.33	2.94	3.27	2.99	3.12	3.48	3.57	2.97	3.30	3.13	3.29
12	2.94	3.02	2.94	3.58	2.98	3.10	3.33	3.33	2.93	3.53	3.11	3.38
13	2.92	3.00	2.93	4.79	2.95	3.08	3.28	3.23	3.16	3.44	3.11	3.14
14	2.91	2.97	2.94	3.41	2.94	3.07	3.20	4.83	3.22	3.52	3.11	3.01
15	2.91	2.95	2.95	3.57	2.93	3.06	4.24	4.51	5.27	4.52	4.50	6.99
16	2.90	3.16	2.95	3.21	2.91	3.04	3.36	3.46	7.90	6.12	3.44	4.77
17	2.90	3.98	2.94	3.11	3.04	3.04	3.21	3.31	4.29	6.09	3.37	3.55
18	2.93	3.16	2.92	3.07	3.53	3.01	3.14	3.28	4.01	3.85	3.21	3.44
19	3.37	3.03	2.92	3.04	3.37	2.99	3.10	3.24	5.41	4.76	3.13	3.44
20	2.97	3.06	2.93	3.02	3.32	3.02	3.07	3.59	9.65	10.05	3.11	3.39
21	3.97	3.04	2.92	3.00	6.45	4.91	3.05	3.26	6.88	5.41	3.09	3.41
22	3.24	2.96	2.92	2.99	3.84	4.34	3.04	3.13	5.31	4.51	3.06	5.87
23	3.01	2.95	3.18	2.98	3.44	6.27	3.01	3.14	4.70	4.20	3.06	3.89
24	2.96	2.95	3.15	2.97	3.30	4.02	3.01	3.07	4.80	3.74	3.20	3.57
25	2.94	2.95	3.10	2.96	3.22	3.48	3.00	3.04	3.70	3.67	3.93	6.91
26	2.94	2.94	2.96	2.95	3.19	3.32	2.98	3.02	3.61	4.73	3.57	6.52
27	2.94	5.57	2.93	3.18	3.32	3.23	2.97	3.00	3.58	3.80	4.18	3.85
28	2.93	3.90	2.98	3.01	5.49	3.19	3.05	2.97	5.15	3.47	3.24	5.50
29	2.94	3.26	3.02	2.95	---	3.14	2.99	2.96	4.34	3.40	3.14	5.13
30	2.93	3.14	3.36	3.12	---	3.71	3.73	2.96	3.50	3.72	3.12	9.87
31	3.75	---	4.44	3.06	---	3.20	---	2.96	---	4.17	3.17	---
MEAN	3.28	3.35	3.04	3.33	3.39	3.53	3.54	3.65	4.24	4.39	3.34	4.13
MAX	7.60	5.91	4.44	4.83	6.45	6.27	6.59	6.72	9.65	10.05	4.50	9.87
MIN	2.85	2.94	2.92	2.95	2.91	2.99	2.97	2.96	2.93	3.30	3.06	2.95

WTR YR 1989 MEAN 3.60 MAX 10.05 MIN 2.85

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to May 1972, July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 06...	0840	31	129	123	7.00	7.20	14.5	11.5	8.7	87
NOV 02...	0940	25	110	109	7.10	7.10	11.0	19.5	8.3	77
DEC 06...	0910	18	159	164	--	7.70	5.0	5.0	12.4	99
JAN 04...	1020	91	6	80	6.94	7.00	7.5	8.0	10.1	86
FEB 07...	0920	347	90	90	6.30	6.90	9.5	6.0	9.1	81
MAR 08...	0900	42	142	146	7.00	7.30	7.0	5.5	10.6	89
APR 04...	0900	52	110	112	6.60	7.00	16.0	18.5	7.4	77
MAY 02...	0950	178	76	74	6.70	7.10	18.0	16.5	7.5	81
JUN 06...	0810	67	140	143	6.90	7.00	21.0	21.0	6.0	69
JUL 12...	0810	26	161	161	7.40	7.50	24.0	26.0	6.4	77
AUG 01...	0800	103	89	89	6.80	7.00	24.0	24.0	6.2	--
SEP 11...	0900	22	162	163	7.04	7.70	23.0	26.0	6.9	83

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 06...	13	0.8	7900	38	0.360	0.080	0.050	2.6
NOV 02...	12	3.1	22000	33	0.170	<0.030	0.060	4.0
DEC 06...	8.0	2.0	4900	50	0.490	0.160	0.070	2.4
JAN 04...	70	3.3	7900	21	0.050	0.040	0.100	5.1
FEB 07...	90	3.7	460000	23	0.350	0.200	0.700	20
MAR 08...	10	1.5	1100	42	0.750	0.170	0.120	3.0
APR 04...	28	0.5	49000	31	0.430	0.100	0.060	7.3
MAY 02...	70	2.5	110000	19	0.510	0.050	0.180	6.8
JUN 06...	19	2.5	160000	41	0.500	0.220	0.240	6.8
JUL 12...	12	1.3	3100	47	0.610	0.070	0.110	1.6
AUG 01...	96	1.9	--	19	0.660	0.050	0.210	6.8
SEP 11...	5.0	0.9	--	51	0.520	0.060	0.170	2.7

02336490 CHATTAHOOCHEE RIVER AT STATE HIGHWAY 280, NEAR ATLANTA, GA.

LOCATION.--Lat 33°49'01", long 84°28'48", Fulton-Cobb County line, Hydrologic Unit 03130002, at bridge on State Highway 280, 0.6 mi upstream from Southern Railway bridge, 1.7 mi downstream from Peachtree Creek, and at mile 298.8.

DRAINAGE AREA.--1,600 mi^2, approximately.

PERIOD OF RECORD.--March 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 736.35 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 5-19, July 21-24. Records good, except those for the periods of estimated daily discharges, which are fair. Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant.

AVERAGE DISCHARGE.--8 years, 2,281 ft^3/s 19.36 in/yr (unadjusted).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft^3/s, Feb. 3, 1982, gage height, 28.91 ft; minimum daily discharge, 847 ft^3/s, May 30, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD: Flood of April 13, 1979, reached a stage of 30.71 ft from floodmarks, discharge, 32,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,400 ft^3/s, Sept. 30, stage rising, peak occurred Oct. 1, 1989, maximum peak discharge, 14,900 ft^3/s, July 17, gage height, 19.09 ft; minimum daily discharge, 935 ft^3/s, May 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	1560	1220	1780	1030	2340	1270	3070	1060	1750	5010	2790
2	5000	1310	1300	1230	1040	1410	1080	1940	1060	1180	5260	2340
3	2350	1250	1240	2460	1030	1750	1230	1180	1100	2730	4710	994
4	3880	1270	1110	2000	1050	1430	2320	1140	1050	2330	4490	1230
5	1870	3070	1110	1400	1150	2150	4670	1600	1160	3180	3640	2880
6	1340	1210	1090	1450	1140	2530	1740	1540	1660	3230	1120	3140
7	1380	1120	1080	1100	1600	1330	1250	1160	1380	2070	1320	3170
8	1200	1330	1090	1050	1380	1220	2900	1060	1090	2090	3800	3150
9	1050	1550	1100	1100	1150	1550	2500	2810	1160	1220	3990	2580
10	1020	1140	1080	1200	1060	1490	1600	3550	1000	1830	1230	1090
11	1180	1360	1080	1500	1050	1440	1730	1340	984	1330	2680	1080
12	1380	1260	1040	1550	1010	1050	1420	1110	991	2180	2670	2090
13	1230	1100	1050	2000	995	1080	1180	1120	1140	1750	1110	2780
14	1030	1080	1070	1150	1030	1080	1120	1880	1120	1430	1120	2780
15	981	1040	1060	1200	998	1150	1550	1720	2360	1490	3660	4420
16	940	1230	1070	1100	980	1440	1170	1110	5940	4690	2130	2880
17	954	1580	1070	1100	1010	1110	1120	1050	2650	7020	2270	1210
18	992	1220	1050	1500	1360	1300	1190	992	1350	2420	1730	1180
19	1260	1260	1050	1800	1170	1020	1160	938	2090	3530	1340	2510
20	1240	1160	1040	1340	1150	994	1230	1330	6490	2450	990	3110
21	1690	1120	1050	1090	5000	2140	1350	1050	8680	3800	1120	3080
22	1420	1070	1050	1050	3150	2280	1380	1030	5460	2600	3230	5180
23	1050	1090	1130	1040	2170	4380	1100	1040	2680	1600	3440	3670
24	1070	1180	1210	1050	1620	2810	1040	1050	2080	1750	3150	1180
25	1080	1190	1120	1100	1400	1360	1110	1090	1220	2260	4590	4400
26	1130	1180	1080	1290	1070	1140	1070	1070	1100	3010	3510	6850
27	1210	2350	1060	1150	1150	1110	1050	1160	1270	2490	3240	4620
28	1200	1850	1100	1080	3820	1060	1030	935	2240	2220	1690	6020
29	1160	1430	1100	1020	—	1070	1020	998	2390	1740	2710	5420
30	1000	1400	1340	1090	—	1590	1230	973	2000	1230	2740	12800
31	1410	—	2050	1120	—	1310	—	992	—	1690	2890	—
TOTAL	44737	40960	35290	41090	41763	49114	44810	43088	65955	74290	86580	100624
MEAN	1443	1365	1138	1325	1492	1584	1494	1390	2199	2396	2793	3354
MAX	5000	3070	2050	2460	5000	4380	4670	3550	8680	7020	5260	12800
MIN	940	1040	1040	1020	980	994	1020	935	984	1180	990	994

CAL YR 1988	TOTAL	514859	MEAN	1407	MAX	10200	MIN	847	MEAN†	1332	CFSM†	.83	IN† 11.27
WTR YR 1989	TOTAL	668301	MEAN	1831	MAX	12800	MIN	935	MEAN†	2410	CFSM†	1.51	IN† 20.51

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.

LOCATION.--Lat 33°48'32", long 84°29'43", Cobb-Fulton County line, Hydrologic Unit 03130002, at bridge on Interstate Highway 285, 0.3 mi upstream from Proctor Creek, 0.5 mi downstream from Southern Railway bridge, at Atlanta city limits, and at mile 297.7.

DRAINAGE AREA.--1,600 mi^2, approximately.

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Flow regulated by Lake Sidney Lanier since January 1956 (see "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant. Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Discharge obtained from gaging station 02336490, Chattahoochee River at State Highway 280, near Atlanta, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
06...	0915	1130	106	103	7.20	7.10	21.0	12.5	8.3	95
NOV										
02...	1010	1340	90	84	7.10	7.00	16.0	20.5	8.9	93
DEC										
06...	1000	1010	118	112	6.90	7.20	15.0	6.0	9.8	99
JAN										
04...	1100	1560	88	88	7.11	7.00	8.0	8.0	9.7	83
FEB										
07...	1000	1870	122	116	6.70	7.00	12.0	7.0	8.9	84
MAR										
08...	0940	1070	120	117	7.00	7.00	12.0	6.0	10.0	94
APR										
04...	0940	1120	120	112	6.70	7.00	20.0	18.5	7.8	88
MAY										
02...	1040	2000	100	94	7.00	7.20	20.0	17.0	7.3	82
JUN										
06...	0840	1310	110	110	7.00	6.90	25.0	21.0	6.6	82
JUL										
11...	0700	1140	121	118	6.80	7.00	26.0	19.0	6.6	83
AUG										
01...	0830	6290	63	62	6.90	6.70	20.0	25.0	6.8	--
SEP										
11...	0930	1060	94	93	7.34	7.00	23.5	26.0	6.7	81

02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 06...	72	1.4	410	21	43	0.670	1.31	0.410	<20
NOV 02...	10	3.2	49000	22	3	0.530	0.800	0.490	6.2
DEC 06...	7.0	3.1	<20	28	2	0.690	1.21	0.520	3.1
JAN 04...	31	3.9	2200	22	33	0.520	0.920	0.550	6.3
FEB 07...	31	6.2	28000	28	44	0.630	1.52	0.780	4.8
MAR 08...	45	2.3	230	25	15	0.840	1.27	0.490	4.1
APR 04...	31	3.3	330	28	24	0.690	1.15	0.460	5.6
MAY 02...	54	4.0	2300	24	52	0.740	0.920	0.540	5.5
JUN 06...	47	--	22000	21	58	1.20	0.290	0.550	5.9
JUL 11...	39	5.7	700	28	51	0.710	1.39	0.640	4.1
AUG 01...	600	1.9	--	13	1110	0.660	0.170	0.570	19
SEP 11...	12	1.3	--	18	13	1.41	0.050	0.470	3.2

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.

LOCATION.--Lat 33°46'22", long 84°36'53", Douglas County, Hydrologic Unit 03130002, on right bank 100 ft upstream from bridge on Interstate Highway 20, 400 ft upstream from Blair Bridge, 3 mi southeast of Austell, and 5.5 mi upstream from mouth.

DRAINAGE AREA.--246 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1904 to December 1905, November to December 1913, March 1937 to current year. Monthly discharge only for November to December 1913, published in WSP 1304.

REVISED RECORDS.--WSP 1724: 1949(M). WDR GA-79-1: 1975(M).

GAGE.--Water-stage recorder. Datum of gage is 857.01 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). May 6, 1904, to Dec. 31, 1905, and Nov. 3 to Dec. 27, 1913, nonrecording gage at site 2.5 mi upstream at different datum. Mar. 24 to Nov. 29, 1937, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--53 years (water years 1905, 1938-89), 330 ft^3/s, 18.22 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft^3/s, Feb 4, 1982, gage height, 19.90 ft; minimum daily, 2.1 ft^3/s, Oct. 9, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1916 reached a stage of about 20.0 ft, from information by local resident; discharge, 12,600 ft^3/s, from rating extended above 6,500 ft^3/s on basis of contracted-opening measurement at gage height, 18.2 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,670 ft^3/s, Sept. 30, stage rising, peak occurred Oct. 2, 1989; and peak discharges greater than a base discharge of 1,800 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 21	1400	2,950	8.90	July 20	1800	1,860	6.28
July 7	1100	3,150	9.34				

Minimum discharge, 24 ft^3/s, Oct. 1, gage height, 0.46 ft.

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	110	133	225	109	862	228	355	76	284	762	180
2	395	97	117	208	106	630	196	327	76	238	766	165
3	711	94	108	333	102	408	200	227	85	747	474	144
4	743	81	107	454	99	341	342	174	119	831	313	125
5	512	219	101	307	101	791	1370	209	136	509	221	109
6	234	240	96	217	123	1150	1110	364	233	1510	177	107
7	146	191	89	183	241	569	890	251	346	2960	151	112
8	112	138	87	164	231	390	604	185	219	1700	134	107
9	91	121	85	152	177	310	821	447	178	547	125	103
10	79	108	85	193	139	265	609	1380	167	689	118	101
11	71	110	84	194	124	235	450	980	137	356	113	97
12	64	105	83	184	116	210	346	523	117	265	109	97
13	58	109	80	463	112	194	292	279	113	238	106	96
14	54	108	85	454	108	183	258	257	121	272	109	100
15	51	102	80	374	109	173	283	350	282	271	255	94
16	50	98	78	274	106	167	274	281	781	319	301	134
17	48	108	78	207	104	156	243	214	784	1370	293	223
18	47	107	77	169	112	151	213	178	433	584	505	162
19	58	102	75	147	141	145	199	160	630	361	548	121
20	57	102	75	137	159	138	183	166	1910	1380	269	105
21	78	134	76	127	762	376	174	170	2720	1620	186	97
22	100	126	77	119	917	515	165	156	2340	992	153	124
23	86	114	81	117	620	848	155	145	1540	748	137	118
24	73	105	90	117	336	978	146	130	736	718	126	100
25	62	95	89	113	240	687	139	120	424	572	117	302
26	56	91	85	110	220	441	130	110	299	480	120	781
27	54	141	82	111	217	321	123	102	236	585	166	500
28	53	207	81	108	835	265	118	95	332	421	127	593
29	52	189	87	104	—	232	114	89	785	267	123	1100
30	52	159	90	106	—	253	223	83	443	201	119	1660
31	70	—	161	112	—	257	—	80	—	248	121	—
TOTAL	4343	3811	2802	6283	6766	12641	10598	8587	16798	22283	7344	7857
MEAN	140	127	90.4	203	242	408	353	277	560	719	237	262
MAX	743	240	161	463	917	1150	1370	1380	2720	2960	766	1660
MIN	26	81	75	104	99	138	114	80	76	201	106	94
CFSM	.57	.52	.37	.83	.98	1.66	1.44	1.13	2.28	2.92	.96	1.07
IN.	.66	.58	.42	.95	1.02	1.91	1.60	1.30	2.54	3.37	1.11	1.19

CAL YR 1988 TOTAL 52941.9 MEAN 145 MAX 1750 MIN 3.2 CFSM .59 IN 8.01
WTR YR 1989 TOTAL 110113.0 MEAN 302 MAX 2960 MIN 26 CFSM 1.23 IN 16.65

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
DEC										
07...	0910	89	86	89	--	7.40	6.0	10.5	11.4	94
MAR										
09...	0940	315	75	74	6.30	6.80	7.0	8.0	11.1	93
JUN										
14...	0850	122	93	90	6.70	7.00	22.5	23.0	6.7	79
SEP										
13...	0825	96	86	84	7.01	7.10	23.5	24.0	6.6	80

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC								
07...	9.0	1.3	1100	28	0.140	0.080	0.050	3.1
MAR								
09...	22	2.6	1300	17	0.310	0.030	0.100	3.0
JUN								
14...	24	1.2	1700	29	0.240	0.030	0.060	3.5
SEP								
13...	21	0.6	330	29	0.240	0.070	0.130	3.5

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.

LOCATION.--Lat 33°39'24", long 84°40'25", Fulton-Douglas County line, Hydrologic Unit 03130002, at downstream end of pier of bridge on State Highways 74 and 92, 1.4 mi downstream from Deep Creek, 8.5 mi northwest of Fairburn, and at mile 281.8.
DRAINAGE AREA.--2,060 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1965 to current year.
GAGE.--Water-stage recorder. Datum of gage is 719.07 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).
REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydro-electric plant.
AVERAGE DISCHARGE.--24 years, 3,501 ft^3/s, 23.08 in/yr, unadjusted.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,500 ft^3/s, Apr. 14, 1979, gage height, 25.18 ft; minimum daily discharge, 1,000 ft^3/s, July 1, 1970.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,800 ft^3/s, Sept. 30, stage rising, peak occurred Oct. 1, 1989; maximum peak discharge 14,200 ft^3/s, June 21, gage height 14.52 ft; minimum daily discharge, 1,070 ft^3/s, Oct. 1, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1070	2080	1570	2610	1360	4240	1820	3580	1310	2410	5190	3100
2	5700	1660	1520	1810	1330	2470	1620	3850	1430	1680	5820	3010
3	3620	1420	1550	2500	1330	2700	1660	1920	1410	3030	5340	1390
4	4610	1500	1410	3270	1320	2130	2190	1620	1480	3870	4840	1240
5	3060	3560	1360	2250	1420	3150	8280	1810	1420	3530	4490	2600
6	1660	1950	1330	2050	1600	4780	4050	2720	2090	4650	1890	3310
7	1720	1500	1330	1830	2120	2710	2770	1840	2430	4890	1430	3390
8	1510	1470	1330	1520	2130	2000	2700	1590	1620	4370	3500	3290
9	1240	1770	1310	1510	1600	2240	5220	3150	1650	2460	4310	3200
10	1180	1590	1300	1750	1470	2070	2920	6870	1480	2450	1790	1440
11	1220	1580	1270	1790	1390	2030	2640	3060	1370	2160	2460	1360
12	1540	1580	1270	2020	1370	1540	2390	2210	1310	2350	3210	1730
13	1500	1380	1260	3260	1300	1520	1960	1790	1390	2320	1530	2920
14	1170	1310	1270	2350	1320	1510	1760	1750	1500	2070	1290	3060
15	1120	1280	1290	2080	1310	1490	2160	3540	2470	1840	3800	3410
16	1070	1340	1260	1840	1270	1850	2020	1880	6450	2860	3070	4750
17	1080	1880	1270	1640	1270	1530	1710	1650	6160	9550	2820	1730
18	1110	1640	1250	1960	1540	1690	1740	1520	2430	3860	2690	1410
19	1340	1470	1240	2140	1770	1450	1710	1450	3400	2630	2320	2240
20	1480	1470	1250	1810	1520	1360	1660	1650	8170	9250	1490	3140
21	1700	1440	1240	1440	5430	2740	1860	1700	12100	7430	1370	3290
22	1940	1360	1250	1400	5130	3370	1840	1450	9620	4890	2860	4770
23	1380	1350	1320	1350	3480	5240	1690	1530	5930	3010	3690	4500
24	1200	1340	1450	1350	2380	5490	1470	1460	3680	2340	3360	1640
25	1270	1490	1400	1380	2080	2790	1530	1490	2150	2870	4480	2650
26	1260	1400	1280	1580	1530	2070	1500	1420	1740	3390	4100	9770
27	1340	2590	1280	1490	1570	1810	1460	1530	1660	3680	3510	5440
28	1420	3040	1300	1410	4430	1670	1400	1290	2340	2920	1880	5940
29	1310	1910	1350	1310	—	1600	1430	1310	3930	2680	2750	7300
30	1190	1840	1390	1370	—	2010	1570	1290	2930	1720	3070	9450
31	1330	—	2490	1490	—	2100	—	1300	—	1710	3040	—
TOTAL	53340	51190	42390	57560	55770	75350	68730	65220	97050	108870	97390	106470
MEAN	1721	1706	1367	1857	1992	2431	2291	2104	3235	3512	3142	3549
MAX	5700	3560	2490	3270	5430	5490	8280	6870	12100	9550	5820	9770
MIN	1070	1280	1240	1310	1270	1360	1400	1290	1310	1680	1290	1240

CAL YR 1988 TOTAL 658200 MEAN 1798 MAX 11400 MIN 1050 MEAN† 1723 CFSM† .84 IN† 11.41
WTR YR 1989 TOTAL 879330 MEAN 2409 MAX 12100 MIN 1070 MEAN† 2988 CFSM† 1.45 IN† 19.69

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to May 1972, March 1974 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1976 to current year.
pH: July 1976 to current year.
WATER TEMPERATURE: October 1975 to current year.
DISSOLVED OXYGEN: July 1976 to current year.
INSTRUMENTATION.--Water-quality monitor. Specific Conductance, pH, Water Temperature, and Dissolved Oxygen are recorded hourly.
REMARKS.--Laboratory analyses are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 217 microsiemens Jan. 11, 1988; minimum recorded, 33 microsiemens July 7, 1976, May 3, 1985.
pH: Maximum recorded, 7.50 units Nov. 20-23, 1980; minimum recorded, 5.50 units Aug. 12, Sept. 13, 1978.
WATER TEMPERATURE: Maximum recorded, 32.0°C June 24, 1981; minimum recorded, 2.5°C Jan. 12, 1982.
DISSOLVED OXYGEN: Maximum recorded, 13.1 mg/L Mar. 24, 1977; minimum recorded, 1.6 mg/L July 26, 1977, Apr. 27, 1988.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 197 microsiemens Oct. 1; minimum recorded, 49 microsiemens Sept. 30.
pH: Maximum recorded, 7.26 units Feb. 24; minimum recorded, 6.21 units May 21.
WATER TEMPERATURE: Maximum recorded, 29.5°C July 12; minimum recorded, 6.5°C Feb. 24.
DISSOLVED OXYGEN: Maximum recorded, 10.1 mg/L Feb. 28, Mar. 1; minimum recorded, 2.9 mg/L Nov. 24.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
05...	0730	3900	90	85	6.80	7.00	20.0	10.0	6.9	77
NOV										
02...	0900	1670	134	128	6.90	6.90	16.5	15.5	7.2	75
DEC										
08...	0945	1340	170	--	7.00	7.10	13.5	6.0	7.2	70
JAN										
05...	0900	2280	109	98	6.92	6.90	10.0	1.0	9.5	85
FEB										
06...	0915	1710	159	169	6.79	6.90	12.5	10.5	7.8	74
MAR										
08...	0800	2060	139	139	7.00	7.20	10.5	2.0	9.1	82
APR										
05...	0730	10100	78	77	6.81	6.70	16.5	14.5	6.6	69
MAY										
02...	0830	4080	84	79	6.71	7.40	19.5	17.0	5.7	63
JUN										
06...	0730	2260	142	138	6.78	6.90	25.5	20.0	5.3	66
JUL										
13...	1200	2470	102	104	6.80	7.10	25.5	35.0	5.5	69
AUG										
02...	0830	5220	76	78	6.84	6.90	19.5	24.5	7.6	84
SEP										
07...	1100	3640	84	84	6.89	6.70	18.0	22.5	8.6	92

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.–Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 05...	270	32	3.7	790	20	144
NOV 02...	15	16	5.3	490	24	6
DEC 08...	9.0	25	5.5	50	35	11
JAN 05...	27	21	5.2	490	22	35
FEB 06...	11	13	5.5	3300	33	16
MAR 08...	41	<5	4.7	490	27	30
APR 05...	230	27	5.3	90	19	382
MAY 02...	120	43	6.1	70000	20	106
JUN 06...	31	25	4.4	6400	26	35
JUL 13...	57	--	--	7900	22	76
AUG 02...	30	24	1.5	--	15	144
SEP 07...	30	13	1.0	11000	16	62

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	0.900	0.580	--	--	--	0.440	7.8
NOV 02...	1.65	0.720	0.38	1.1	2.8	0.890	4.6
DEC 08...	0.680	1.33	0.37	1.7	2.4	1.27	3.6
JAN 05...	0.150	0.090	0.91	1.0	1.2	0.390	4.3
FEB 06...	1.56	1.73	1.9	3.6	5.2	1.12	6.3
MAR 08...	1.19	1.17	0.73	1.9	3.1	0.690	5.0
APR 05...	0.490	0.460	1.6	2.1	2.6	0.740	11
MAY 02...	0.630	0.420	1.5	1.9	2.5	0.590	8.9
JUN 06...	1.59	0.620	0.98	1.6	3.2	1.00	6.2
JUL 13...	1.14	0.530	--	--	--	0.450	3.2
AUG 02...	0.820	0.120	0.68	0.80	1.6	0.230	5.2
SEP 07...	0.990	0.030	0.27	0.30	1.3	0.350	5.2

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.–Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	197	157	155	120	148	124	119	101	—	—	99	80
2	177	69	136	120	161	142	120	102	168	158	123	101
3	106	71	155	129	150	136	135	110	163	153	142	110
4	104	78	158	136	144	138	116	95	170	153	133	111
5	114	89	150	84	144	133	132	104	169	150	138	90
6	143	118	123	90	157	138	133	121	160	130	99	82
7	156	130	137	123	166	150	142	130	153	122	123	98
8	163	133	154	135	170	153	151	140	131	110	140	120
9	164	147	149	130	169	152	143	140	150	112	152	110
10	154	144	153	116	168	151	153	140	156	133	152	118
11	166	149	160	144	158	138	152	148	166	145	150	120
12	175	120	148	137	149	140	149	120	164	145	152	130
13	166	117	152	131	164	142	142	102	158	145	153	141
14	169	139	148	141	178	157	126	107	170	146	158	140
15	173	162	163	138	166	155	139	119	173	160	170	150
16	176	164	165	150	174	155	137	125	171	151	171	130
17	167	154	146	131	176	155	156	134	173	160	162	138
18	169	153	143	128	171	149	165	123	183	159	169	138
19	172	160	155	135	153	142	154	109	151	123	157	147
20	159	126	145	131	167	145	151	119	143	130	155	146
21	169	133	145	132	173	156	167	138	141	70	165	105
22	153	107	154	136	172	159	167	149	92	70	118	94
23	142	131	163	147	166	151	158	146	102	88	—	—
24	155	144	163	148	171	142	167	145	133	100	—	—
25	158	145	150	118	143	130	172	160	142	108	—	—
26	173	150	137	122	133	124	170	130	120	110	—	—
27	176	151	131	93	139	127	162	132	138	119	—	—
28	167	139	97	86	150	134	168	150	152	80	—	—
29	165	146	128	96	155	149	163	150	—	—	—	—
30	163	151	135	121	162	143	153	141	—	—	—	—
31	161	143	—	—	143	104	161	142	—	—	143	120
MONTH	197	69	165	84	178	104	172	95	183	70	171	80

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	153	130	144	90	167	152	152	104	—	—	109	86
2	143	132	112	84	167	151	140	128	77	63	108	86
3	148	130	144	114	163	148	136	86	76	67	136	102
4	150	131	153	139	159	137	102	78	79	66	139	126
5	81	70	160	134	153	137	100	92	81	66	137	85
6	102	81	150	111	145	127	95	76	126	80	103	83
7	115	106	133	122	136	112	85	66	142	126	106	83
8	133	117	146	133	148	120	100	77	147	69	106	83
9	110	84	153	102	157	145	121	94	100	64	100	83
10	113	95	103	76	167	152	130	95	156	93	133	100
11	124	111	109	88	163	150	136	107	157	92	140	128
12	124	118	133	109	155	146	151	100	111	81	163	113
13	138	123	151	133	164	147	138	100	130	94	138	84
14	147	133	150	105	166	151	139	106	138	129	108	84
15	150	127	123	87	—	—	144	120	140	79	108	86
16	124	112	146	111	—	—	132	85	114	82	91	71
17	135	123	159	141	—	—	—	—	132	95	121	93
18	148	131	167	148	—	—	—	—	116	88	130	121
19	157	143	174	156	—	—	127	95	135	92	146	96
20	153	142	177	154	—	—	133	63	141	122	117	83
21	153	129	150	137	77	60	90	67	144	134	100	82
22	153	128	156	142	83	63	97	84	153	85	101	66
23	144	125	166	151	103	70	110	96	94	79	83	67
24	144	132	175	163	109	91	118	106	98	80	124	87
25	159	139	170	152	131	111	133	104	107	66	135	78
26	169	152	171	150	141	131	134	94	87	65	69	57
27	171	159	165	146	157	141	—	—	123	73	79	66
28	177	160	152	143	156	113	—	—	115	86	82	65
29	176	160	152	138	122	88	—	—	137	92	79	66
30	168	126	154	137	120	96	—	—	113	88	84	49
31	—	—	170	153	—	—	—	—	117	87	—	—
MONTH	177	70	177	76	167	60	152	63	157	63	163	49
YEAR	197	49										

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.–Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.82	6.75	6.87	6.76	7.16	6.97	7.03	6.98	—	—	7.00	6.92
2	6.93	6.53	7.09	6.87	7.17	7.14	6.99	6.90	7.01	6.87	7.01	6.98
3	6.86	6.65	7.08	6.98	7.17	7.07	6.93	6.88	6.97	6.88	7.00	6.92
4	6.85	6.78	7.03	6.99	7.12	7.07	6.92	6.88	6.87	6.84	6.99	6.92
5	6.90	6.75	7.00	6.86	7.09	7.06	7.10	6.90	6.85	6.77	7.00	6.91
6	6.93	6.88	7.00	6.94	7.08	7.04	7.10	7.02	6.83	6.75	6.93	6.82
7	6.91	6.87	6.98	6.87	7.07	6.99	7.04	6.94	6.86	6.75	7.01	6.90
8	6.94	6.89	6.98	6.85	7.11	6.99	6.98	6.94	6.84	6.77	7.09	7.00
9	6.95	6.90	6.95	6.88	7.08	6.95	6.98	6.95	6.89	6.80	7.10	7.02
10	6.97	6.92	6.91	6.82	6.99	6.94	7.09	6.97	6.92	6.85	7.06	7.02
11	6.94	6.89	6.87	6.82	7.03	6.95	7.09	7.00	6.97	6.87	7.04	6.97
12	6.98	6.87	6.88	6.78	7.03	7.00	7.07	6.99	7.03	6.88	7.01	6.98
13	6.95	6.90	6.85	6.78	7.01	6.95	7.03	6.94	7.05	6.94	7.03	6.99
14	6.95	6.90	6.87	6.77	7.04	6.95	7.03	6.93	7.10	6.96	7.04	7.00
15	6.99	6.88	6.86	6.79	7.02	6.94	7.06	7.01	7.06	6.95	7.06	7.01
16	6.97	6.89	7.01	6.86	6.94	6.91	7.06	6.98	6.98	6.94	7.07	6.97
17	6.91	6.77	7.02	6.97	7.00	6.94	7.07	7.04	7.08	6.98	7.03	7.00
18	6.79	6.76	7.06	7.02	7.03	6.98	7.11	7.06	7.13	7.07	7.03	6.98
19	6.99	6.77	7.04	6.92	7.01	6.96	7.08	6.98	7.11	7.02	7.03	7.00
20	6.99	6.95	7.07	6.93	6.99	6.94	7.02	6.91	7.07	6.98	7.03	7.00
21	6.97	6.92	7.11	7.07	7.07	6.95	7.05	6.95	7.06	6.88	7.03	6.93
22	6.94	6.89	7.08	7.05	7.05	6.99	6.97	6.94	7.17	6.88	6.98	6.90
23	6.96	6.89	7.08	7.06	7.00	6.96	6.99	6.95	7.21	7.17	—	—
24	7.03	6.94	7.10	7.04	7.00	6.97	6.98	6.91	7.26	7.12	—	—
25	7.04	6.95	7.12	7.05	7.00	6.94	7.08	6.92	7.17	7.02	—	—
26	7.03	6.97	7.04	6.96	7.01	6.90	7.00	6.91	7.13	6.82	—	—
27	6.98	6.92	6.93	6.79	6.91	6.87	6.93	6.90	7.04	6.87	—	—
28	6.92	6.83	6.94	6.85	7.13	6.88	6.93	6.90	7.09	6.88	—	—
29	6.89	6.78	6.96	6.92	7.13	7.11	6.93	6.90	—	—	—	—
30	6.86	6.78	6.98	6.94	7.12	7.08	6.92	6.88	—	—	—	—
31	6.81	6.73	—	—	7.09	7.01	6.92	6.88	—	—	6.92	6.82
MONTH	7.04	6.53	7.12	6.76	7.17	6.87	7.11	6.88	7.26	6.75	7.10	6.82

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.99	6.90	6.94	6.69	6.98	6.87	7.15	6.92	—	—	6.96	6.91
2	7.03	6.92	6.86	6.71	6.92	6.83	7.14	7.08	7.00	6.84	6.99	6.90
3	6.98	6.90	6.93	6.87	6.89	6.83	7.10	6.90	7.12	6.90	6.99	6.93
4	6.93	6.90	6.95	6.92	6.88	6.81	7.10	6.88	7.17	7.02	6.97	6.92
5	6.81	6.69	6.95	6.90	6.84	6.78	7.10	6.96	7.19	7.06	6.98	6.91
6	6.99	6.72	6.95	6.87	6.84	6.75	7.04	6.88	7.25	7.11	6.95	6.87
7	7.03	6.99	6.94	6.89	6.91	6.76	6.94	6.78	7.26	7.14	6.99	6.89
8	7.10	7.00	6.94	6.83	6.85	6.79	7.02	6.90	7.13	6.74	7.00	6.94
9	7.08	7.02	6.86	6.71	6.90	6.85	7.14	6.99	7.08	6.91	6.99	6.92
10	7.09	7.05	6.89	6.72	6.94	6.87	6.99	6.86	7.10	6.82	7.00	6.98
11	7.13	7.05	7.02	6.81	6.93	6.90	6.93	6.81	7.11	6.92	6.99	6.94
12	7.16	7.10	7.05	7.00	6.92	6.87	6.91	6.79	7.18	6.76	6.97	6.89
13	7.13	7.08	7.09	7.04	6.96	6.88	6.85	6.75	7.12	6.99	6.94	6.88
14	7.13	7.07	7.12	6.96	6.88	6.76	6.86	6.77	7.07	6.94	6.95	6.88
15	7.07	7.04	7.00	6.87	—	—	6.88	6.77	7.03	6.77	6.95	6.64
16	7.03	6.97	7.07	7.00	—	—	6.82	6.62	7.21	6.94	6.91	6.53
17	7.01	6.91	7.11	6.62	—	—	—	—	7.03	6.91	7.02	6.91
18	6.94	6.85	6.86	6.52	—	—	—	—	7.07	7.01	7.03	7.01
19	7.00	6.95	6.71	6.26	—	—	7.09	6.98	7.07	7.01	7.04	7.01
20	7.03	6.98	6.78	6.52	—	—	7.22	6.82	7.05	6.97	7.05	6.99
21	7.05	7.02	6.72	6.21	—	—	7.10	6.85	7.00	6.93	7.05	6.98
22	7.12	7.04	6.75	6.34	6.89	6.71	7.18	7.06	6.96	6.92	7.05	6.92
23	7.07	7.01	6.74	6.47	7.03	6.75	7.17	7.09	6.93	6.83	7.05	6.93
24	7.06	6.94	6.92	6.63	7.05	6.95	7.14	7.08	6.89	6.85	7.14	7.04
25	6.98	6.92	6.99	6.78	7.10	7.03	7.15	7.07	6.90	6.77	7.17	6.99
26	6.97	6.95	7.01	6.74	7.07	7.00	7.13	6.94	6.87	6.81	7.00	6.89
27	6.96	6.93	6.95	6.72	7.08	6.98	—	—	6.94	6.83	7.09	6.95
28	6.94	6.89	6.96	6.84	7.08	6.78	—	—	6.86	6.76	7.08	6.91
29	6.91	6.87	6.86	6.77	6.95	6.70	—	—	6.87	6.78	6.94	6.88
30	6.88	6.76	6.91	6.77	7.06	6.88	—	—	6.93	6.88	6.98	6.62
31	—	—	6.97	6.91	—	—	—	—	6.94	6.89	—	—
MONTH	7.16	6.69	7.12	6.21	7.10	6.70	7.22	6.62	7.26	6.74	7.17	6.53
YEAR	7.26	6.21										

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	24.5	22.5	17.5	15.5	13.5	12.5	12.5	11.5	—	—	10.5	10.0
2	23.5	20.5	17.0	16.0	13.0	12.5	13.5	12.5	15.0	14.0	10.5	10.0
3	22.0	20.5	18.5	16.0	13.0	11.5	14.5	12.0	16.0	14.5	11.5	10.5
4	21.5	19.5	18.0	17.0	13.5	12.0	12.0	11.0	15.5	13.5	12.0	11.0
5	20.5	18.5	18.0	16.0	13.5	12.0	11.5	10.0	13.5	12.5	12.0	11.0
6	20.5	19.5	16.5	15.5	14.0	13.0	13.0	11.0	13.0	12.5	12.5	12.0
7	20.0	18.5	17.0	15.5	14.5	13.0	14.5	13.0	13.0	11.0	12.0	10.5
8	19.5	18.5	17.5	16.5	15.0	13.5	15.5	14.5	11.0	10.0	10.5	10.5
9	20.0	18.5	17.5	16.0	15.5	14.0	15.0	13.5	10.5	9.5	11.0	10.0
10	20.0	18.5	18.0	15.5	14.0	13.5	14.0	13.0	9.5	8.0	12.0	10.5
11	21.0	19.5	18.0	16.5	13.5	11.0	14.0	13.0	10.0	8.0	13.5	11.5
12	20.0	17.0	17.5	16.0	11.0	10.5	14.0	12.0	11.0	9.0	15.5	12.5
13	19.0	17.5	17.5	16.0	12.0	10.5	14.0	12.0	11.5	9.0	16.0	14.5
14	19.0	17.5	18.0	16.5	12.5	11.0	12.5	11.0	15.0	11.5	17.0	15.0
15	19.5	17.5	19.0	17.5	13.5	12.0	12.0	11.0	16.5	14.0	18.0	17.0
16	19.0	17.5	20.0	18.5	13.5	13.0	12.0	11.0	17.0	15.5	17.5	17.0
17	20.0	18.0	19.5	16.0	12.5	11.5	12.0	11.0	16.5	13.5	17.5	16.0
18	21.0	19.5	16.0	15.0	11.5	10.5	11.5	10.0	13.5	11.0	18.5	17.0
19	21.5	20.0	17.5	16.0	12.0	10.5	12.0	10.0	11.0	10.0	18.5	16.5
20	20.0	17.5	18.0	17.0	12.0	10.5	13.0	11.0	11.0	10.0	17.5	16.0
21	19.5	17.5	17.5	16.5	13.5	11.5	12.5	11.0	11.0	10.0	16.0	14.0
22	17.5	15.5	17.0	16.0	15.0	13.0	12.5	11.0	10.0	9.5	14.0	12.5
23	18.0	16.0	17.0	15.0	16.5	14.5	13.0	10.5	9.5	7.5	—	—
24	19.5	18.0	16.0	14.0	16.5	15.0	13.5	11.5	8.0	6.5	—	—
25	19.0	17.5	16.0	14.5	16.0	14.0	14.0	12.0	—	—	—	—
26	18.5	17.0	17.5	15.5	15.0	13.5	14.0	12.5	—	—	—	—
27	18.5	17.5	18.0	16.0	15.0	13.5	15.5	13.0	—	—	—	—
28	18.5	18.0	16.0	14.5	15.0	13.0	14.5	12.5	11.5	10.0	—	—
29	19.5	18.5	14.5	13.5	13.5	12.5	14.0	12.0	—	—	—	—
30	19.5	18.0	14.0	13.0	13.5	12.5	14.5	13.0	—	—	—	—
31	19.0	17.0	—	—	13.0	11.0	14.0	13.0	—	—	20.5	18.5
MONTH	24.5	15.5	20.0	13.0	16.5	10.5	15.5	10.0	17.0	6.5	20.5	10.0

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.5	17.5	23.5	20.5	28.0	26.0	25.5	22.5	—	—	22.0	19.0
2	19.0	17.0	21.5	19.5	28.0	26.5	24.5	23.5	20.0	18.5	21.5	19.5
3	19.0	18.0	22.0	20.0	27.5	26.0	24.0	23.5	20.5	19.0	25.0	21.5
4	—	—	21.5	20.5	26.5	25.0	24.5	23.0	20.5	18.5	26.0	24.0
5	17.0	16.5	21.5	20.5	26.5	25.0	24.0	22.5	20.0	18.5	25.5	21.5
6	17.0	16.5	21.0	19.5	25.5	24.5	24.0	22.0	24.0	18.5	21.5	18.5
7	17.0	16.5	20.5	19.0	25.0	23.5	25.0	24.0	27.5	23.5	19.5	18.0
8	16.5	14.5	21.0	18.5	25.5	24.5	26.0	24.0	26.5	17.5	19.5	17.5
9	14.0	12.5	21.0	18.5	24.5	24.0	26.5	24.5	18.5	16.5	20.0	18.0
10	13.5	12.5	18.5	17.5	26.5	24.5	26.5	26.0	22.5	18.0	22.5	19.5
11	15.0	13.0	18.5	17.5	27.0	25.0	27.5	26.5	23.5	21.5	24.0	22.0
12	15.0	13.5	20.0	18.0	27.5	25.0	29.5	26.5	22.0	18.0	25.5	23.0
13	17.0	14.5	19.5	18.5	28.5	26.0	28.0	24.5	22.5	20.0	24.0	18.5
14	18.5	16.0	21.0	18.5	28.0	26.5	27.5	25.0	25.5	22.0	20.5	18.0
15	19.0	17.5	20.5	19.0	—	—	27.5	25.5	25.5	20.5	22.0	18.5
16	19.5	17.5	21.5	19.5	—	—	26.5	25.5	23.5	19.5	22.0	19.5
17	20.5	17.5	22.5	20.0	—	—	—	—	25.5	22.5	22.5	19.5
18	22.0	19.0	23.5	21.0	—	—	—	—	24.0	21.0	23.0	21.0
19	22.5	20.5	23.0	22.0	—	—	26.5	23.5	25.0	23.0	22.5	20.0
20	22.0	20.5	23.0	22.0	—	—	25.5	22.0	27.0	24.0	20.0	17.5
21	20.5	19.5	23.5	21.0	22.0	21.5	24.0	22.0	27.5	25.5	19.0	18.0
22	20.5	18.5	24.5	22.0	23.0	22.0	24.0	22.0	27.0	19.5	19.5	18.0
23	21.0	20.0	25.0	23.0	24.0	22.0	24.5	23.5	20.0	18.5	19.0	17.5
24	23.5	19.5	25.5	23.0	25.0	24.0	26.0	24.5	21.0	18.5	19.0	18.0
25	25.0	22.0	25.5	23.5	27.0	25.5	27.5	25.5	20.5	18.0	19.0	16.5
26	25.5	23.0	26.5	23.5	28.5	26.5	27.5	22.5	20.0	17.0	17.0	15.5
27	25.5	23.5	26.0	24.0	29.5	27.5	—	—	22.0	18.0	—	—
28	25.5	23.5	27.0	24.0	28.5	26.0	—	—	26.5	22.5	17.0	15.0
29	25.0	24.0	26.5	24.5	26.0	24.5	—	—	28.0	25.0	16.5	15.5
30	25.0	23.0	26.5	24.0	25.5	23.0	—	—	25.0	20.5	18.5	16.5
31	—	—	29.0	26.0	—	—	—	—	23.0	19.5	—	—
MONTH	25.5	12.5	29.0	17.5	29.5	21.5	29.5	22.0	28.0	16.5	26.0	15.0
YEAR	29.5	6.5										

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.0	4.1	7.3	6.4	8.6	8.1	9.1	8.5	—	—	10.1	9.9
2	6.6	4.8	7.4	6.8	8.3	8.0	8.8	8.2	7.8	7.5	9.9	9.3
3	6.8	6.5	6.7	6.2	8.6	7.8	8.4	8.0	7.5	7.1	9.4	8.7
4	7.1	6.6	6.6	6.4	8.8	8.2	9.1	8.6	7.4	7.1	9.2	8.6
5	7.3	6.6	7.5	5.7	8.6	8.2	9.6	8.8	7.8	7.5	9.5	8.7
6	6.8	6.3	7.7	7.2	8.3	7.7	9.1	8.5	8.1	7.8	9.4	8.7
7	7.0	6.3	7.3	6.8	8.1	7.3	8.6	7.9	8.7	7.7	9.3	8.9
8	7.0	5.5	6.9	6.5	7.5	7.2	8.0	7.4	9.7	8.6	9.3	9.0
9	6.6	5.5	7.3	6.6	7.4	7.1	7.7	7.6	9.5	8.9	9.9	8.6
10	6.7	6.4	7.7	6.4	7.8	7.3	7.9	7.6	9.7	9.3	9.5	9.0
11	6.4	5.8	6.7	6.2	8.4	7.7	8.0	7.8	9.5	9.0	9.4	8.5
12	6.9	5.5	7.2	6.6	8.6	8.4	8.8	7.8	9.4	9.1	8.7	7.5
13	7.3	6.0	7.3	6.6	8.5	8.2	8.5	7.4	9.3	8.0	7.8	7.5
14	6.7	6.1	6.9	6.5	8.4	8.1	8.7	8.5	8.1	6.8	7.6	7.0
15	6.4	6.1	6.7	6.0	8.3	7.9	8.8	8.5	6.8	6.0	7.0	6.3
16	6.4	6.2	6.1	5.9	7.9	7.6	8.8	8.5	6.2	5.9	7.4	6.3
17	6.4	5.9	6.7	6.2	8.2	7.8	8.4	8.2	6.1	5.6	7.3	6.0
18	5.9	5.4	7.7	6.9	8.6	8.3	9.3	8.3	6.6	5.8	6.9	4.9
19	5.6	4.8	7.3	6.7	8.8	8.5	9.3	8.2	8.7	6.9	6.6	6.4
20	6.7	5.7	7.3	6.3	8.8	8.5	9.0	8.0	8.7	8.1	6.6	6.4
21	6.5	5.8	6.5	5.3	8.6	8.1	8.5	7.7	9.3	8.1	7.6	6.3
22	7.4	5.7	5.3	4.3	8.0	7.6	8.2	8.0	9.6	9.3	8.7	7.5
23	7.3	6.6	4.5	3.6	7.5	7.1	8.4	7.9	10.0	9.3	—	—
24	6.6	6.1	6.5	2.9	7.2	6.6	8.4	7.6	10.0	8.5	—	—
25	6.4	6.1	8.1	7.2	7.5	6.9	7.7	7.4	—	—	—	—
26	6.6	6.1	7.8	7.2	7.6	7.3	8.3	7.4	—	—	—	—
27	6.9	6.3	7.3	6.7	7.7	7.5	8.3	7.2	—	—	—	—
28	6.9	6.5	8.3	7.0	7.6	7.2	8.0	7.0	10.1	8.4	—	—
29	6.7	6.2	8.3	8.0	7.8	7.4	8.2	7.9	—	—	—	—
30	6.6	6.4	8.5	8.2	7.8	7.5	8.2	7.5	—	—	—	—
31	6.6	6.1	—	—	8.8	7.9	8.1	7.5	—	—	6.3	5.6
MONTH	7.4	4.1	8.5	2.9	8.8	6.6	9.6	7.0	10.1	5.6	10.1	4.9

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.8	5.2	5.9	3.9	5.3	4.5	7.1	5.8	—	—	7.9	7.4
2	6.8	6.3	6.7	4.3	5.1	3.0	6.7	6.2	7.7	7.3	8.0	7.5
3	6.5	6.0	6.7	5.5	5.3	4.8	6.7	5.8	7.8	7.3	7.7	6.7
4	6.2	5.4	5.7	5.4	5.7	5.1	6.9	6.4	7.9	7.4	7.0	6.8
5	7.8	6.7	5.8	5.3	5.7	4.7	7.2	6.8	7.9	7.3	8.1	6.9
6	7.9	7.7	6.4	5.3	5.9	4.9	7.2	6.5	7.6	6.2	8.6	8.2
7	7.7	7.4	6.8	6.3	6.1	5.7	7.0	6.6	6.4	5.3	8.8	8.3
8	7.8	6.6	6.9	6.3	5.9	5.0	6.9	6.4	7.8	5.7	8.6	8.4
9	9.1	8.0	7.2	6.3	5.7	5.3	6.7	5.6	8.2	7.3	8.7	8.2
10	9.1	8.2	8.1	7.1	5.7	5.1	6.0	5.5	7.4	3.7	8.3	7.6
11	8.6	8.0	8.0	7.7	5.6	5.3	5.5	4.6	7.1	3.5	7.7	7.3
12	8.4	8.0	7.8	6.8	5.7	5.3	5.6	3.9	8.0	6.9	7.3	6.5
13	7.9	7.3	6.9	6.5	5.5	4.5	5.8	4.7	7.8	7.0	8.6	6.9
14	7.3	6.6	7.1	6.5	4.7	4.4	5.7	4.9	7.2	6.5	8.6	8.0
15	6.7	6.4	7.0	5.7	—	—	5.5	4.6	7.7	6.1	8.5	4.9
16	7.0	6.5	6.9	6.2	—	—	5.7	4.4	8.0	7.0	8.0	5.4
17	6.7	6.0	6.2	5.7	—	—	—	—	7.6	6.6	8.0	7.7
18	6.0	5.3	5.8	5.5	—	—	—	—	8.1	7.2	7.8	7.4
19	5.9	5.1	5.5	5.1	—	—	6.5	5.8	7.7	7.0	7.9	7.2
20	5.6	5.3	5.5	5.1	—	—	6.9	6.2	7.2	6.5	8.7	7.9
21	6.4	5.6	5.9	5.3	7.4	7.0	7.2	6.7	6.7	6.3	8.8	8.2
22	6.8	5.9	5.3	4.8	7.2	6.9	7.5	7.1	8.1	6.2	8.3	7.3
23	6.7	5.6	5.0	4.4	7.0	6.7	7.3	6.8	8.6	8.1	8.1	7.8
24	6.5	5.0	4.5	4.3	6.7	5.9	6.9	6.6	8.6	8.3	8.1	7.7
25	5.1	4.6	4.7	4.3	6.2	5.8	6.8	6.3	8.6	8.0	8.0	7.4
26	4.8	4.1	4.7	4.4	5.9	5.5	7.2	6.4	8.7	8.0	8.7	7.9
27	4.7	4.2	5.0	4.4	5.5	5.0	—	—	8.4	6.2	—	—
28	4.3	3.8	5.1	4.4	5.5	5.0	—	—	7.3	6.2	8.6	8.1
29	4.3	3.6	5.2	4.5	6.4	4.3	—	—	6.6	6.1	8.6	8.1
30	4.6	3.6	5.4	4.8	7.1	6.4	—	—	7.8	6.7	8.3	7.6
31	—	—	4.8	4.3	—	—	—	—	7.9	7.2	—	—
MONTH	9.1	3.6	8.1	3.9	7.4	3.0	7.5	3.9	8.7	3.5	8.8	4.9
YEAR	10.1	2.9										

02337500 SNAKE CREEK NEAR WHITESBURG, GA.

LOCATION.--Lat 33°31'46", long 84°55'42", Carroll County, Hydrologic Unit 03130002, on left bank, on downstream side of former bridge pier, 50 ft upstream from county highway bridge, at Banning Mills, 1.6 mi north of U.S. Highway 27 (ALT), 3 mi northwest of Whitesburg, 4 mi downstream from Little Snake Creek, and 7 mi upstream from mouth.

DRAINAGE AREA.--37 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 850 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--35 years, 56.0 ft^3/s, 20.55 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,690 ft^3/s, Feb. 25, 1961, gage height, 14.40 ft; minimum discharge, 2.3 ft^3/s, Oct. 7, 1954, gage height, 1.56 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 16	1330	1,590	6.58	Sept. 30	1930	*1,770	*6.99
June 20	1300	1,380	6.11				

Minimum discharge, 8.5 ft^3/s, Oct. 1, gage height, 1.82 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	18	24	36	21	50	36	41	23	46	66	44
2	106	15	22	27	21	44	34	38	24	62	59	42
3	106	14	21	35	21	43	40	32	27	101	54	38
4	49	15	21	38	21	40	89	31	27	75	51	35
5	31	43	20	30	22	47	370	36	29	78	48	34
6	26	25	20	28	22	62	110	41	32	107	47	36
7	22	21	20	26	31	43	80	33	81	84	45	36
8	18	20	19	25	27	39	75	33	39	67	43	35
9	17	20	19	24	24	37	86	40	37	60	43	33
10	16	19	19	24	23	35	70	43	32	55	42	33
11	15	19	18	23	23	34	59	35	29	50	42	57
12	14	18	18	24	22	33	54	32	28	48	41	43
13	13	20	18	49	22	32	50	31	26	45	40	38
14	13	19	17	39	21	31	48	35	25	44	42	35
15	13	18	17	38	21	30	52	41	66	46	105	38
16	13	18	17	34	21	29	47	32	341	86	60	61
17	13	19	16	30	20	28	44	30	123	65	50	40
18	13	18	16	29	24	28	42	28	64	48	47	36
19	13	19	16	27	24	28	41	28	72	166	44	34
20	12	20	16	27	24	27	39	29	615	258	42	33
21	18	19	16	25	114	48	38	28	335	207	41	35
22	16	17	16	24	66	56	37	27	208	144	41	35
23	14	17	17	23	46	97	36	44	132	243	40	33
24	13	17	17	23	37	77	35	32	93	120	39	31
25	13	17	16	22	34	56	34	28	77	94	37	64
26	13	17	16	22	33	48	33	27	65	82	38	78
27	13	39	16	22	32	43	32	25	57	72	40	47
28	13	40	17	21	62	40	31	24	52	64	38	43
29	13	30	17	21	—	38	30	23	49	59	37	46
30	13	26	17	23	—	45	32	23	47	56	38	425
31	14	—	32	23	—	39	—	22	—	65	51	—
TOTAL	685.0	637	571	862	879	1327	1804	992	2855	2797	1451	1618
MEAN	22.1	21.2	18.4	27.8	31.4	42.8	60.1	32.0	95.2	90.2	46.8	53.9
MAX	106	43	32	49	114	97	370	44	615	258	105	425
MIN	9.0	14	16	21	20	27	30	22	23	44	37	31
CFSM	.60	.57	.50	.75	.85	1.16	1.62	.87	2.57	2.44	1.27	1.46
IN.	.69	.64	.57	.87	.88	1.33	1.81	1.00	2.87	2.81	1.46	1.63

CAL YR 1988	TOTAL	9322.6	MEAN	25.5	MAX	499	MIN	4.9	CFSM	.69	IN	9.37
WTR YR 1989	TOTAL	16478.0	MEAN	45.1	MAX	615	MIN	9.0	CFSM	1.22	IN	16.57

02337500 SNAKE CREEK NEAR WHITESBURG, GA.–Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.–December 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAR									
13...	0830	31	33	34	7.28	7.80	12.0	9.8	93
JUL									
11...	0800	50	36	33	6.97	7.50	21.5	8.6	99

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
MAR										
13...	32	8.8	9	2.2	0.92	2.8	37	0.4	1.0	10
JUL										
11...	–	11	8	1.8	0.82	2.5	38	0.4	0.80	9.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
MAR												
13...	3.4	2.5	0.10	9.6	21	–	–	–	0.200	0.150	0.010	<0.010
JUL												
11...	2.0	2.4	0.10	9.4	22	–	–	–	0.200	0.150	0.030	0.040

02337500 SNAKE CREEK NEAR WHITESBURG, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	PHOS-PHOROUS DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)
MAR												
13...	--	--	<0.20	<0.20	--	--	0.020	<0.010	1.7	<10	<1	<1
JUL												
11...	0.27	0.16	0.30	0.20	0.50	0.35	0.010	<0.010	2.3	30	<1	<1

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAR											
13...	<1	<1	<1	96	<5	<5	66	--	<0.1	<1	13
JUL											
11...	<1	1	2	290	2	2	42	<0.10	0.1	<1	10

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.

LOCATION.–Lat 33°28'37", long 84°54'04", Carroll-Coweta County line, Hydrologic Unit 03130002, at downstream end of right bank pier of bridge on State Highway 16, 0.5 mi upstream from Central of Georgia Railroad bridge, 1.2 mi southeast of Whitesburg, 1.5 mi downstream from Cedar Creek, 2.0 mi downstream from Snake Creek, and at mile 259.8.

DRAINAGE AREA.–2,430 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–October 1938 to June 1954, January 1965 to current year.

GAGE.–Water-stage recorder. Datum of gage is 682.06 ft above National Geodetic Vertical Datum of 1929. Prior to May 1, 1949, nonrecording gage at site 1.0 mi upstream at datum 2.00 ft higher. May 1, 1949, to June 30, 1954, nonrecording gage at present site at datum 2.00 ft higher.

REMARKS.–No estimated daily discharges. Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the City of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant.

AVERAGE DISCHARGE.–39 years (water years 1939-53, 1966-89), 3,909 ft^3/s, 21.85 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 59,000 ft^3/s, Jan. 10, 1946, gage height, 25.1 ft, site and datum then in use, from graph based on gage readings, from rating extended above 30,000 ft^3/s on basis of velocity-area and channel-capacity studies; minimum daily discharge, 468 ft^3/s, Oct. 26, 1941.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, 19,600 ft^3/s, Sept. 30, stage rising, peak occurred Oct. 2, 1989; maximum peak discharge, 19,500 ft^3/s, June 22, gage height, 14.92 ft; minimum daily discharge, 1,090 ft^3/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	2000	1840	3000	1560	5660	2110	2880	1380	2870	4500	3500
2	4090	1820	1650	2320	1490	3300	1940	5300	1480	2370	6340	3450
3	5630	1560	1700	2060	1470	2960	1790	2600	1490	3120	6160	2320
4	4600	1570	1590	3980	1460	2650	2290	1940	1600	5210	5320	1550
5	3980	3050	1490	2730	1510	3170	9770	1930	1560	4100	5060	2300
6	2060	2880	1440	2220	1730	5780	6810	3000	2080	5630	3200	3420
7	1860	1730	1430	2140	1930	3980	3790	2310	2750	5900	1780	3680
8	1660	1550	1440	1770	2580	2600	3050	1880	2000	5250	2860	3550
9	1420	1760	1430	1680	1890	2520	6030	2610	1830	3920	4610	3540
10	1300	1860	1410	1790	1690	2370	4120	7520	1750	3040	3150	2270
11	1280	1570	1400	1900	1560	2350	3220	4270	1540	2930	2210	1630
12	1540	1670	1360	2160	1520	2020	3040	2800	1430	2560	3400	1780
13	1550	1590	1360	3120	1440	1790	2520	2160	1430	2880	2470	2890
14	1300	1430	1350	3100	1460	1780	2230	1940	1600	2650	1670	3220
15	1230	1400	1410	2350	1490	1740	2350	3680	2050	2260	5030	3170
16	1160	1350	1370	2230	1450	1920	2710	2410	6110	3020	4950	5880
17	1140	1790	1380	1910	1400	1900	2110	1940	9460	9760	3090	2720
18	1160	1860	1360	2000	1530	1810	2070	1760	3600	5800	3520	1800
19	1270	1530	1330	2240	1970	1770	2020	1630	3610	3450	2770	2070
20	1580	1590	1360	2100	1690	1540	1980	1640	11100	9010	2090	3200
21	1500	1560	1370	1740	4520	2270	2100	2040	17400	10800	1740	3470
22	2160	1460	1380	1570	7240	4020	2100	1650	15300	6560	2450	4340
23	1590	1430	1390	1510	4370	5100	2020	1790	8880	4820	3910	5420
24	1270	1430	1540	1500	2940	7760	1710	1700	5050	3260	3790	2830
25	1310	1560	1570	1500	2350	3990	1700	1620	3200	3400	4290	1910
26	1290	1490	1410	1620	1910	2740	1730	1570	2410	3800	4680	11800
27	1370	2060	1390	1690	1770	2290	1660	1610	2130	4490	3880	7060
28	1460	3940	1400	1610	3570	2080	1610	1540	2260	3580	2910	5890
29	1370	2350	1470	1480	—	1950	1610	1350	4440	3170	2590	8990
30	1330	2050	1450	1470	—	2100	1640	1410	3640	2280	3350	9780
31	1220	—	2310	1620	—	2550	—	1380	—	2090	3380	—
TOTAL	56770	54890	45780	64110	61490	90460	83830	73860	124560	133980	111150	119430
MEAN	1831	1830	1477	2068	2196	2918	2794	2383	4152	4322	3585	3981
MAX	5630	3940	2310	3980	7240	7760	9770	7520	17400	10800	6340	11800
MIN	1090	1350	1330	1470	1400	1540	1610	1350	1380	2090	1670	1550

CAL YR 1988 TOTAL 737010 MEAN 2014 MAX 13600 MIN 1090 MEAN† 1939 CFSM† .80 IN† 10.86
WTR YR 1989 TOTAL 1020310 MEAN 2795 MAX 17400 MIN 1090 MEAN† 3374 CFSM† 1.39 IN† 18.88

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.–Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to May 1972, July 1975 to current year.
PERIOD OF DAILY RECORD.–
WATER TEMPERATURES: August 1975 to September 1976, November 1978 to September 1984.
REMARKS.–Laboratory analyses with the analyzing agency code 84213 are provided by the U.S. Geological Survey. Laboratory analyses with the analyzing agency code 81314 are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 31.5°C June 24, 1981; minimum, 1.5°C Jan. 13, 1982.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
05...	0810	4070	77	75	6.80	6.80	18.5	14.5	6.8	74
NOV										
03...	1140	1550	125	122	7.00	6.90	16.0	22.0	6.7	69
DEC										
07...	1030	1470	140	138	6.70	7.10	11.0	15.0	8.4	78
JAN										
05...	1700	2550	95	98	7.10	7.10	11.5	14.5	9.2	86
FEB										
08...	0940	2650	134	128	6.40	6.80	11.0	3.5	7.3	67
MAR										
09...	1240	2520	118	115	6.90	7.00	10.0	16.0	8.9	80
APR										
06...	0900	7140	68	68	--	6.70	16.0	17.0	7.5	77
MAY										
11...	1030	4020	73	71	6.90	7.00	17.0	18.5	7.4	78
JUN										
14...	1000	1670	145	142	6.90	7.00	26.0	25.0	5.0	63
JUL										
11...	1230	3140	92	89	7.00	6.90	25.0	33.5	5.5	67
AUG										
02...	0900	5690	78	67	6.70	6.80	19.5	21.0	7.1	79
SEP										
13...	1035	3150	119	122	7.11	7.00	24.0	28.5	6.3	76

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
05...	160	2.4	--	15	180	0.800	0.390	0.440	7.9
NOV									
03...	15	2.8	330	21	33	1.90	0.330	1.69	9.0
DEC									
07...	9.0	3.1	330	26	5	2.10	0.610	0.970	3.3
JAN									
05...	43	4.8	700	21	42	0.640	0.040	0.550	5.8
FEB									
08...	35	6.8	3300	25	49	1.53	1.18	1.00	6.8
MAR									
09...	34	4.7	490	24	29	1.27	0.720	0.510	3.8
APR									
06...	100	3.0	17000	14	109	0.620	0.190	0.170	5.4
MAY									
11...	120	2.6	22000	16	170	0.650	0.110	0.350	8.7
JUN									
14...	22	1.8	110	24	32	2.04	0.130	0.870	3.4
JUL									
11...	80	2.1	3300	18	92	1.09	0.120	0.420	4.5
AUG									
02...	170	1.7	--	11	293	0.780	0.080	0.400	6.3
SEP									
13...	40	1.5	3300	25	70	1.97	0.090	0.560	3.8

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
NOV						
03...	1345	84213	1520	16.5	17	70
03...	1350	84213	1520	16.5	19	78
DEC						
14...	1245	84213	1370	9.0	6	22
14...	1250	84213	1370	9.0	6	22
JAN						
19...	1515	84213	2240	10.0	32	194
19...	1520	84213	2240	10.0	42	254
FEB						
21...	1331	84213	3420	--	155	1430
21...	1336	84213	3420	--	151	1390
21...	1557	84213	4890	--	255	3360
21...	1602	84213	4890	--	265	3500
21...	1734	84213	7020	--	381	7230
21...	1739	84213	7020	--	393	7450
22...	1103	84213	7230	--	394	7690
22...	1455	84213	6140	--	296	4910
22...	1500	84213	6140	--	303	5020
27...	1647	84213	1800	10.0	19	93
27...	1652	84213	1800	10.0	19	93
APR						
05...	1017	84213	11800	--	676	21600
05...	1338	84213	13100	--	653	23100
05...	1343	84213	13100	--	633	22400
06...	0756	84213	7520	--	201	4080
06...	0801	84213	7520	--	199	4040
06...	1132	84213	6460	--	166	2890
06...	1137	84213	6460	--	171	2980
10...	1436	84213	3860	12.0	81	844
10...	1441	84213	3860	12.0	83	865
MAY						
24...	0844	84213	1750	--	30	142
24...	0849	84213	1750	--	31	147
JUL						
10...	1215	84213	2780	25.5	90	675
10...	1220	84213	2780	25.5	97	728
AUG						
24...	0945	84213	3660	--	73	721
24...	0950	84213	3660	--	72	711
SEP						
26...	0941	84213	13400	16.5	1100	39700
26...	1151	84213	14200	--	871	33400
26...	1156	84213	14200	--	874	33500
26...	1713	84213	13500	--	528	19300
26...	1718	84213	13500	--	534	19500
27...	0912	84213	6630	--	283	5070
27...	0917	84213	6630	--	283	5070

02338500 CHATTAHOOCHEE RIVER AT FRANKLIN, GA.

LOCATION.--Lat 33°16'45", long 85°06'00", Heard County, Hydrologic Unit 03130002, at the bridge on U.S. Highway 27 at Franklin, and at mile 235.5.

DRAINAGE AREA.--2,680 mi², approximately.

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Flow regulated by Lake Sidney Lanier (see "Lakes and Reservoirs in Apalachicola River Basin," station 02334400). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Records of discharge for the calendar years 1928-31 and 1938-39 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
05...	1020	93	91	7.10	6.90	20.0	20.0	6.3	70
NOV									
03...	1250	130	128	7.10	7.00	17.0	23.0	7.5	79
DEC									
07...	1200	138	137	7.10	7.20	12.0	19.0	11.4	108
JAN									
03...	1615	91	95	7.10	7.10	11.0	17.0	9.4	87
FEB									
08...	1125	128	124	6.70	7.00	11.0	4.0	8.7	80
MAR									
09...	1340	108	104	7.00	7.00	11.5	16.0	9.8	91
APR									
06...	1110	64	63	6.40	6.60	16.0	19.0	6.9	71
MAY									
11...	1130	73	71	6.80	6.80	18.0	19.0	6.7	72
JUN									
14...	1120	139	139	7.10	7.10	28.0	29.0	6.0	78
JUL									
11...	1110	95	92	7.20	7.00	27.0	32.5	5.8	74
AUG									
02...	1030	97	96	6.90	6.90	26.5	26.0	5.5	70
SEP									
13...	1655	119	122	7.72	7.20	28.0	32.0	6.8	88

02338500 CHATTAHOOCHEE RIVER AT FRANKLIN, GA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
05...	160	2.2	--	16	200	1.29	0.300	0.500	7.5
NOV									
03...	26	1.6	1300	23	14	1.60	0.190	0.770	4.6
DEC									
07...	12	2.2	110	21	14	1.77	0.130	0.550	17
JAN									
05...	60	4.5	1700	18	70	0.830	0.090	0.390	5.1
FEB									
08...	33	2.8	330	21	53	1.79	0.510	0.920	5.6
MAR									
09...	42	3.8	230	19	43	1.15	0.270	0.340	4.2
APR									
06...	160	3.7	3300	12	170	0.520	0.070	0.460	8.3
MAY									
11...	250	3.5	46000	14	303	0 750	0.090	0.610	4.7
JUN									
14...	14	1.3	130	24	19	0.520	<0.030	0.830	3.0
JUL									
11...	52	1.7	490	18	61	0.960	0.030	0.320	4.3
AUG									
02...	100	1.8	--	19	194	1.17	0.050	0.500	6.7
SEP									
13...	33	0.7	590	19	64	1.92	0.030	0.510	4.5

02338660 NEW RIVER NEAR CORINTH, GA.

LOCATION.–Lat 33°14'07", long 84°59'16", Heard County, Hydrologic Unit 03130002, at bridge on State Highway 100, 1.7 mi downstream of Caney Creek, 2.5 mi west of Corinth, 3.9 mi downstream of Mountain Creek, and 8.1 mi upstream of Chattahoochee River.
DRAINAGE AREA.–127 mi^2.
PERIOD OF RECORD.–October 1978 to current year.
GAGE.–Water-stage recorder. Datum of gage is 634.68 ft above National Geodetic Vertical Datum of 1929.
REMARKS.–No estimated daily discharges. Records good. Daily water temperature record available for water years 1979-84.
AVERAGE DISCHARGE.–11 years, 141 ft^3/s, 15.08 in/yr.
EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 7,450 ft^3/s, April 14, 1979, from logarithmic extension of rating curve above 4,200 ft^3/s, gage-height, 13.92 ft; minimum daily discharge, 0.24 ft^3/s, Aug. 7, 1986.
EXTREMES FOR CURRENT YEAR.–Peak discharge greater than base discharge of 1,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 21	1300	*2,200	*9.94	July 23	1900	2,150	9.89

Minimum daily discharge, 20 ft^3/s, Oct. 15, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	50	111	187	77	177	126	123	30	152	117	51
2	58	52	97	124	70	139	108	309	27	150	104	44
3	167	43	89	101	66	147	101	171	26	269	86	40
4	91	41	85	151	71	137	150	114	31	430	78	35
5	58	272	78	121	79	142	1020	104	42	546	71	30
6	43	295	72	96	97	301	1200	118	88	528	65	29
7	37	124	71	88	99	308	522	105	145	391	58	31
8	34	93	67	86	111	174	372	90	90	267	51	31
9	31	90	66	82	84	138	600	94	77	322	50	28
10	29	82	68	78	73	118	671	169	59	215	48	34
11	28	75	66	79	69	108	568	161	46	185	44	26
12	25	67	67	80	67	101	395	104	38	132	43	28
13	22	68	62	131	65	96	310	85	34	116	43	50
14	21	67	60	168	60	91	238	78	29	113	44	40
15	20	62	59	144	64	85	304	87	47	119	184	32
16	21	58	62	131	59	86	356	92	310	147	560	41
17	21	76	61	107	58	81	233	79	644	140	245	48
18	20	83	55	97	61	83	185	69	268	107	147	34
19	24	65	53	92	76	76	161	65	211	97	107	27
20	25	71	52	91	89	69	150	65	675	406	88	24
21	32	83	57	87	285	179	140	68	1770	716	73	23
22	52	71	55	81	542	354	129	61	745	403	66	27
23	43	61	53	78	273	410	126	63	418	1160	64	32
24	37	58	54	76	159	506	115	61	300	1070	57	29
25	33	56	54	73	131	313	105	53	219	450	52	46
26	31	53	50	71	118	217	97	48	172	318	49	355
27	31	118	47	74	111	168	90	44	139	273	47	333
28	34	411	52	74	148	143	84	40	130	231	45	136
29	36	268	56	69	—	130	79	35	311	190	43	114
30	37	140	52	75	—	171	77	32	254	152	43	212
31	36	—	110	87	—	179	—	31	—	132	49	—
TOTAL	1211	3153	2041	3079	3262	5427	8812	2818	7375	9927	2821	2010
MEAN	39.1	105	65.8	99.3	117	175	294	90.9	246	320	91.0	67.0
MAX	167	411	111	187	542	506	1200	309	1770	1160	560	355
MIN	20	41	47	69	58	69	77	31	26	97	43	23
CFSM	.31	.83	.52	.78	.92	1.38	2.32	.72	1.94	2.52	.72	.53
IN.	.35	.92	.60	.90	.96	1.59	2.58	.83	2.16	2.91	.83	.59

CAL YR 1988	TOTAL	34300.9	MEAN	93.7	MAX	1380	MIN	2.9	CFSM	.74	IN	10.05
WTR YR 1989	TOTAL	51936.0	MEAN	142	MAX	1770	MIN	20	CFSM	1.12	IN	15.21

02338720 CHATTAHOOCHEE RIVER NEAR LAGRANGE, GA.

LOCATION.–Lat 33°04'42", long 85°06'39", Troup County, Hydrologic Unit 03130002, at the City of LaGrange water intake, 1.2 mi upstream from Yellowjacket Creek, and 5.3 mi northwest of LaGrange.

DRAINAGE AREA.–3,010 mi^2, approximately.

PERIOD OF RECORD.–July 1974 to current year.

REMARKS.–Flow regulated by Lake Sidney Lanier (see "Lakes and Reservoirs in Apalachicola River Basin," station 02334400). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH (STANDARD UNITS)	PH LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT									
05...	1120	101	101	6.90	6.90	23.5	21.0	5.1	61
NOV									
03...	1340	130	129	7.60	7.30	18.0	23.5	9.6	104
DEC									
07...	1310	112	113	7.00	7.00	13.0	20.5	8.6	83
JAN									
05...	1525	117	118	7.10	7.10	12.5	17.5	8.3	79
FEB									
08...	1210	129	127	7.00	7.20	12.5	4.0	9.4	90
MAR									
09...	1420	78	77	7.20	6.90	11.0	17.0	10.6	97
APR									
06...	1150	103	101	6.70	7.10	18.0	19.0	7.9	85
MAY									
11...	1200	111	110	7.10	7.20	20.0	19.5	7.6	85
JUN									
14...	1200	130	131	9.30	9.10	28.0	30.0	10.3	134
JUL									
11...	1030	86	84	8.90	8.50	29.5	30.0	12.2	163
AUG									
02...	1130	83	79	9.40	9.30	31.0	28.5	10.4	143
SEP									
13...	1520	113	94	10.10	9.90	31.5	34.0	15.2	211

02338720 CHATTAHOOCHEE RIVER NEAR LAGRANGE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 05...	6.0	--	2.8	--	16	22
NOV 03...	6.0	--	2.8	<20	21	5
DEC 07...	13	--	2.1	20	20	8
JAN 05...	15	--	2.8	220	21	12
FEB 08...	10	--	1.9	<20	21	10
MAR 09...	9.0	--	3.8	<20	17	10
APR 06...	12	--	2.2	110	19	20
MAY 11...	13	--	1.2	40	21	15
JUN 14...	6.0	--	4.1	<20	23	10
JUL 11...	6.0	27	3.3	<20	20	7
AUG 02...	4.0	--	3.5	--	17	10
SEP 13...	5.0	13	6.1	<20	19	18

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	0.810	0.280	--	--	--	0.230	4.0
NOV 03...	1.75	0.050	--	--	--	1.81	3.6
DEC 07...	1.24	0.140	--	--	--	0.240	2.7
JAN 05...	0.850	0.100	--	--	--	0.330	3.2
FEB 08...	1.66	0.180	--	--	--	0.400	3.2
MAR 09...	0.560	0.060	--	--	--	0.120	3.6
APR 06...	1.18	0.130	--	--	--	0.200	3.9
MAY 11...	1.30	0.120	--	--	--	0.240	4.9
JUN 14...	0.570	<0.030	--	--	--	0.190	5.4
JUL 11...	0.280	0.100	0.80	0.90	1.2	0.140	3.3
AUG 02...	0.030	<0.030	--	--	--	0.140	4.7
SEP 13...	0.040	<0.030	--	0.39	0.43	0.180	4.5

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.

LOCATION.–Lat 32°53'10", long 85°10'56", Troup County, Hydrologic Unit 03130002, on right bank just downstream from Oseligee Creek at West Point, 1 mi upstream from bridge on U.S. Highway 29, 2.5 mi downstream from West Point Dam and at mile 198.9.
DRAINAGE AREA.–3,550 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–August 1896 to current year. Gage-height records collected at site 0.8 mi downstream since 1899 are contained in reports of National Weather Service.
REVISED RECORDS.–WSP 682: 1920, drainage area. WSP 972: 1931-32. WSP 1504: 1912, 1916-17.
GAGE.–Water-stage recorder. Datum of gage is 551.67 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 20, 1912, nonrecording gage at site 0.8 mi downstream at datum 2.83 ft lower. Oct. 20, 1912, to Jan. 25, 1925, nonrecording gage at site 500 ft upstream at present datum.
REMARKS.–No estimated daily discharges. Records good. Flow regulated by Lake Sidney Lanier since January 1956 and by West Point Lake since October 1974. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400 and 02339400.)
AVERAGE DISCHARGE.–93 years, 5,543 ft^3/s, 21.20 in/yr, unadjusted.
EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 134,000 ft^3/s, Dec. 10, 1919, gage height, 30.0 ft at site then in use; 29.25 ft at present site, from floodmarks, from rating curve extended above 80,000 ft^3/s on basis of computation of peak flow over Langdale Dam; minimum discharge, 224 ft^3/s Sept. 12, 1925, gage height, 1.64 ft.
EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known since at least 1827, that of Dec. 10, 1919. Flood in 1886 reached a stage of 25.6 ft at former site and datum, from floodmark, by National Weather Service, discharge, 92,800 ft^3/s.
EXTREMES FOR CURRENT YEAR.–Maximum discharge, 29,000 ft^3/s, June 21, gage height, 13.56 ft; minimum daily discharge, 619 ft^3/s, Oct. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	630	4980	2790	1120	4720	3930	856	3350	5240	863	7010	7140
2	646	5150	2790	4520	4770	4000	837	3400	4010	894	4520	773
3	2470	5090	793	3120	4820	4060	5260	3370	789	3400	5110	745
4	4900	3250	769	2400	834	1470	5330	3310	798	5690	5110	5780
5	4890	748	4710	2240	822	1180	8150	3340	3950	6100	757	5810
6	4920	762	4870	2230	2910	3590	13000	780	3010	7410	752	5790
7	4910	5170	4920	1050	2890	3670	12600	771	4060	7230	7570	5810
8	643	5180	4970	821	2880	3510	6810	3940	4000	7160	5120	5820
9	677	5180	4990	2170	3200	3470	6100	4180	3940	7100	7570	725
10	3040	5220	803	2340	4990	3440	8760	4190	833	4840	7600	712
11	3050	5200	779	2140	810	842	8800	4210	810	4590	7610	5740
12	3080	728	3550	2160	808	831	8620	4190	5170	4640	3830	5790
13	3040	712	3570	2310	2220	5200	8540	1010	5190	6990	3830	6420
14	3040	5540	3580	971	2150	5320	8510	1000	2880	7000	7000	6440
15	621	5680	3600	908	2150	5310	1070	2300	2930	926	7090	6460
16	619	5730	3610	2240	2150	5260	1030	2330	3310	909	7070	687
17	4300	5730	794	2240	2150	5280	4070	2300	2360	7680	896	682
18	4340	5810	1090	2280	816	886	4030	2280	1240	8820	762	7050
19	4320	856	4270	2200	820	794	4010	2210	5240	8490	751	7060
20	4570	736	4470	2450	4230	3350	4050	758	14400	8690	745	7070
21	4480	3980	4470	1360	4410	3440	4010	764	27700	16100	6350	7100
22	664	4040	4390	1350	4740	3520	829	3880	27300	10400	6340	7120
23	637	4090	4390	1350	4280	3800	803	3950	21300	7120	8370	704
24	4950	4140	787	3090	4180	3910	2700	3970	13200	7630	8290	687
25	4970	4180	780	6220	871	990	2680	3990	9840	7660	8260	7190
26	4990	761	4300	6170	855	899	2680	4010	6530	7660	755	7660
27	4980	893	4370	6200	3470	3380	3330	789	6010	7610	739	8750
28	5060	3080	2200	845	3500	3370	3960	774	5290	7670	7060	7140
29	651	2890	3660	817	—	3360	786	3960	5290	806	6990	7120
30	635	2810	4420	5400	—	3460	781	4200	5240	778	7060	1020
31	5020	—	921	5520	—	3460	—	5200	—	3860	6770	—
TOTAL	95743	108316	96406	80232	77446	98982	142992	88706	201860	186716	157687	146995
MEAN	3088	3611	3110	2588	2766	3193	4766	2861	6729	6023	5087	4900
MAX	5060	5810	4990	6220	4990	5320	13000	5200	27700	16100	8370	8750
MIN	619	712	769	817	808	794	781	758	789	778	739	682

CAL YR 1988	TOTAL	1021455	MEAN	2791	MAX	11200	MIN	576	MEAN†	2703	CFSM† .76	IN† 10.32
WTR YR 1989	TOTAL	1482081	MEAN	4060	MAX	27700	MIN	619	MEAN†	4643	CFSM† 1.31	IN† 17.79

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER AND WEST POINT LAKE.

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.92	4.20	3.18	2.50	4.18	3.83	2.30	3.53	4.39	2.26	5.15	5.21
2	1.95	4.34	3.17	4.10	4.20	3.86	2.28	3.58	3.82	2.29	4.00	2.15
3	2.94	4.28	2.17	3.43	4.21	3.91	4.45	3.55	2.25	3.55	4.27	2.11
4	4.09	3.33	2.14	3.06	2.23	2.63	4.49	3.51	2.26	4.74	4.26	4.55
5	4.09	2.11	4.14	2.95	2.22	2.47	5.81	3.52	3.91	4.94	2.13	4.56
6	4.09	2.13	4.23	2.94	3.32	3.70	7.91	2.26	3.43	5.42	2.12	4.55
7	4.09	4.34	4.24	2.42	3.31	3.76	7.77	2.25	3.99	5.31	5.41	4.56
8	1.94	4.35	4.28	2.21	3.30	3.64	5.22	3.88	3.94	5.27	4.34	4.56
9	1.97	4.35	4.28	2.91	3.45	3.61	4.89	4.02	3.91	5.23	5.41	2.08
10	3.17	4.37	2.18	3.04	4.28	3.59	6.09	4.03	2.28	4.19	5.42	2.06
11	3.18	4.36	2.16	2.90	2.20	2.26	6.12	3.99	2.25	4.06	5.42	4.52
12	3.21	2.08	3.60	2.90	2.20	2.25	6.03	4.03	4.52	4.09	3.65	4.54
13	3.27	2.06	3.61	3.03	2.93	4.39	5.98	2.49	4.54	5.18	3.64	4.83
14	3.26	4.67	3.62	2.37	2.95	4.47	5.96	2.49	3.38	5.18	5.12	4.84
15	1.90	4.76	3.62	2.31	2.90	4.46	2.50	3.12	3.37	2.32	5.19	4.84
16	1.90	4.79	3.63	2.98	2.90	4.44	2.47	3.14	3.63	2.31	5.18	2.02
17	3.77	4.79	2.18	2.97	2.89	4.45	3.92	3.13	3.27	5.49	2.25	2.02
18	3.81	4.83	2.36	3.02	2.21	2.28	3.91	3.12	2.60	5.98	2.13	5.12
19	3.79	2.19	3.97	2.94	2.21	2.21	3.89	3.07	4.55	5.90	2.12	5.13
20	3.97	2.10	4.03	3.16	3.94	3.54	3.92	2.26	8.31	5.91	2.11	5.13
21	4.00	3.78	4.02	2.69	4.06	3.60	3.89	2.27	13.16	9.26	4.83	5.14
22	1.97	3.82	3.99	2.68	4.29	3.67	2.30	3.78	13.03	6.81	4.82	5.15
23	1.93	3.84	3.99	2.68	4.01	3.84	2.27	3.82	11.08	5.23	5.77	2.05
24	4.19	3.86	2.17	3.54	3.94	3.93	3.21	3.85	8.03	5.46	5.74	2.02
25	4.22	3.87	2.16	4.90	2.27	2.42	3.20	3.83	6.55	5.48	5.73	5.18
26	4.22	2.13	3.94	4.85	2.25	2.34	3.20	3.84	4.98	5.47	2.11	5.55
27	4.22	2.28	3.98	4.86	3.59	3.59	3.53	2.28	4.74	5.45	2.10	6.03
28	4.27	3.43	2.90	2.24	3.61	3.58	3.79	2.26	4.39	5.47	5.16	5.27
29	1.95	3.28	3.58	2.21	—	3.57	2.26	3.80	4.38	2.19	5.13	5.25
30	1.93	3.20	4.00	4.48	—	3.64	2.25	3.94	4.36	2.16	5.15	2.37
31	4.24	—	2.32	4.55	—	3.66	—	4.38	—	3.68	5.01	—
MEAN	3.21	3.60	3.35	3.16	3.22	3.47	4.19	3.32	4.98	4.72	4.22	4.11
MAX	4.27	4.83	4.28	4.90	4.29	4.47	7.91	4.38	13.16	9.26	5.77	6.03
MIN	1.90	2.06	2.14	2.21	2.20	2.21	2.25	2.25	2.25	2.16	2.10	2.02

WTR YR 1989 MEAN 3.80 MAX 13.16 MIN 1.90

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory analyses with the analyzing agency code 84213 are provided by the U.S. Geological Survey. Laboratory analyses with the analyzing code 81314 are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 05...	1230	635	108	104	7.10	7.00	22.0	22.5	5.7	66
NOV 03...	1450	697	99	103	7.10	7.00	18.0	24.0	7.7	83
DEC 07...	1420	889	98	102	7.20	7.00	12.5	22.5	9.4	90
JAN 05...	1400	1470	72	81	7.20	7.20	10.0	17.5	10.5	94
FEB 08...	1320	931	91	93	7.30	7.40	11.0	5.0	11.3	103
MAR 09...	1520	898	66	--	7.10	7.00	11.0	19.0	11.4	104
APR 06...	1350	17200	65	60	6.70	6.30	15.0	20.0	8.3	83
MAY 11...	1310	1060	73	71	7.20	7.30	18.5	20.0	8.8	95
JUN 14...	1320	850	69	--	6.80	7.20	22.0	31.0	4.4	51
JUL 11...	0915	854	74	72	7.00	6.90	25.0	26.5	5.4	66
AUG 02...	1220	1660	82	83	6.90	6.90	27.5	31.5	3.6	46
SEP 13...	1350	14400	85	85	6.98	6.80	27.0	32.0	3.3	42

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
OCT 05...	4.0	0.8	--	23	0.340	0.210	0.040	3.0	420	70
NOV 03...	4.0	1.2	<20	21	0.530	0.060	0.500	3.1	330	90
DEC 07...	5.0	1.2	20	20	0.730	0.060	0.070	2.0	200	64
JAN 05...	8.0	2.0	1700	18	0.490	0.030	0.050	4.4	--	--
FEB 08...	6.0	1.6	85	23	0.610	0.030	0.110	3.3	280	17
MAR 09...	13	2.2	80	21	0.390	0.030	0.110	2.7	1400	88
APR 06...	45	1.8	2200	13	0.440	0.030	0.030	5.0	--	--
MAY 11...	--	1.3	50	21	0.280	0.060	0.060	4.2	560	75
JUN 14...	4.0	1.3	50	21	0.330	0.150	0.100	3.3	--	--
JUL 11...	10	0.9	70	25	0.190	0.070	0.100	2.0	1300	170
AUG 02...	5.0	0.8	--	21	0.310	0.130	0.110	2.8	--	--
SEP 13...	4.0	2.1	20	21	0.140	0.210	0.130	3.8	2000	220

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
JAN						
18...	1815	84213	1010	9.5	6	16
18...	1820	84213	1010	9.5	6	16
FEB						
28...	1829	84213	3400	12.0	5	46
28...	1834	84213	3400	12.0	5	46
MAY						
23...	1115	84213	787	20.0	1	2.1
23...	1120	84213	787	20.0	0	0.0
JUN						
22...	1120	84213	28300	--	11	841
22...	1125	84213	28300	--	10	764
23...	1205	84213	22100	--	7	418
23...	1210	84213	22100	--	8	477
23...	1658	84213	17900	--	6	290
23...	1703	84213	17900	--	7	339
27...	1324	84213	13300	--	10	360
27...	1329	84213	13300	--	9	324
JUL						
11...	1015	84213	854	26.5	7	16
11...	1020	84213	854	26.5	8	18
AUG						
23...	0915	84213	732	--	8	16
23...	0920	84213	732	--	6	12

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
MAY							
08...	1235	84213	1070	<1	<1	1	6
08...	1236	84213	1070	<1	<1	1	4
08...	1237	84213	1070	<1	<1	5	16
08...	1238	84213	1070	<1	<1	5	18
JUN							
27...	1404	84213	14300	<1	1	14	26
27...	1405	84213	14300	<1	<1	2	4
27...	1406	84213	14300	<1	<1	2	7
27...	1407	84213	14300	<1	<1	2	5
27...	1408	84213	14300	<1	2	8	12
SEP							
26...	1421	84213	6910	<1	<1	<1	<1
26...	1422	84213	6910	<1	<1	3	5
26...	1423	84213	6910	<1	<1	<1	<1
26...	1424	84213	6910	<1	<1	<1	4

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAY						
08...	18	23	25	32	72	100
08...	18	35	45	59	69	100
08...	29	31	32	39	52	100
08...	35	51	57	62	62	100
JUN						
27...	37	49	60	71	100	100
27...	6	8	12	18	28	34
27...	29	54	63	78	91	100
27...	14	26	34	55	100	100
27...	18	22	24	30	47	100
SEP						
26...	1	1	2	5	61	100
26...	17	30	34	43	78	100
26...	<1	<1	<1	6	61	100
26...	17	34	42	52	77	100

02339720 LONG CANE CREEK NEAR WEST POINT, GA.

LOCATION.--Lat 32°54'37", long 85°08'43", Troup County, Hydrologic Unit 03130002, at bridge on Webb Road 2.5 mi northeast of West Point.
DRAINAGE AREA.--74.8 mi^2, approximately.
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
05...	1200	28	475	471	7.50	7.50	18.5	22.5	5.7	62
NOV										
03...	1430	36	400	403	7.30	7.20	15.5	23.5	6.2	63
DEC										
07...	1350	50	333	342	7.20	7.20	10.0	22.0	8.8	79
JAN										
05...	1430	--	125	135	7.00	6.90	11.0	17.5	9.6	88
FEB										
08...	1300	--	226	224	7.00	7.20	11.0	6.0	7.9	72
MAR										
09...	1500	--	230	228	7.00	6.90	12.0	19.0	9.0	84
APR										
06...	1235	--	57	58	6.60	6.50	16.0	20.0	7.5	76
MAY										
11...	1240	--	135	134	7.00	7.20	17.0	22.5	7.2	76
JUN										
14...	1250	34	435	449	7.30	7.20	26.0	30.0	4.4	55
JUL										
11...	0940	92	190	192	7.20	7.30	25.0	--	5.1	62
AUG										
02...	1200	39	290	296	7.30	7.30	27.0	30.5	4.5	57
SEP										
13...	1255	96	242	250	7.12	7.00	25.5	32.5	4.4	55

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
05...	8.0	1.0	--	108	2.40	0.100	1.61	9.4
NOV								
03...	7.0	1.8	230	77	1.74	<0.030	2.02	8.7
DEC								
07...	13	1.4	790	64	1.48	0.110	1.16	6.3
JAN								
05...	24	3.1	140	29	0.540	0.080	0.470	6.2
FEB								
08...	15	3.3	170	40	1.04	0.430	0.740	7.8
MAR								
09...	13	3.1	80	59	0.990	0.420	1.16	6.3
APR								
06...	64	2.3	2300	12	0.190	<0.030	0.160	7.0
MAY								
11...	28	1.7	790	33	0.540	0.070	0.410	7.1
JUN								
14...	10	1.8	220	75	1.21	0.080	1.86	9.8
JUL								
11...	14	1.4	1300	45	1.00	0.060	0.450	3.9
AUG								
02...	7.0	1.2	--	68	1.35	0.050	0.900	8.6
SEP								
13...	52	3.2	3300	53	1.04	0.050	0.860	8.4

02339780 CHATTAHOOCHEE RIVER AT LANGDALE, ALA.

LOCATION.--Lat 32°48'50", long 85°10'03", Chambers County, Ala.-Harris County, Ga., Hydrologic Unit 03130002, at right end of Langdale Dam, 0.3 mi upstream from Moores Creek, 2.8 mi downstream from Long Cane Creek, and 0.4 mi south of Langdale.
DRAINAGE AREA.--3,630 mi^2.
PERIOD OF RECORD.--October 1982 to current year.
GAGE.--Water-stage recorder. Datum of gage is 540.01 ft above National Geodetic Vertical Datum of 1929.
REMARKS.--Flow regulated by Lake Sidney Lanier since January 1956 and by West Point Lake since October 1974. (See "Lakes and Reservoirs in Apalachicola Basin," stations 02334400 and 02339400.)
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.37 ft, June 22, 1989.
EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 11.37 ft, June 22.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.99	8.63	8.03	8.04	8.72	8.60	7.96	7.97	8.73	7.28	8.65	9.02
2	7.20	8.96	7.95	8.68	8.75	8.63	8.02	8.20	8.54	7.17	8.51	7.89
3	7.58	8.84	7.58	8.36	8.75	8.68	8.74	8.20	6.93	8.39	8.48	7.96
4	8.35	8.57	7.79	8.46	7.37	8.14	8.87	7.99	6.43	8.90	8.54	8.83
5	8.36	7.88	8.64	7.94	7.49	7.60	9.36	7.93	7.82	9.19	7.51	8.85
6	8.42	7.70	8.83	7.85	8.41	8.18	10.10	7.33	8.36	9.14	7.87	8.64
7	8.44	8.58	8.73	7.57	8.38	8.61	9.98	6.33	8.40	9.11	9.09	8.59
8	7.37	8.86	8.83	7.99	8.35	8.52	9.29	8.13	8.54	9.08	8.84	8.60
9	7.51	8.86	8.79	7.78	8.39	8.50	9.08	8.47	8.58	9.03	9.12	7.72
10	7.76	8.87	7.48	8.03	8.76	8.49	9.47	8.49	7.30	8.60	9.04	7.88
11	7.95	8.86	7.67	7.80	7.75	7.74	9.49	8.39	7.84	8.45	9.15	8.49
12	7.97	7.46	8.47	8.13	7.92	7.98	9.45	8.54	8.83	8.53	8.21	8.60
13	8.42	7.64	8.53	8.20	8.14	8.68	9.31	7.64	8.89	8.91	8.50	8.75
14	8.41	8.83	8.46	7.91	7.68	8.88	9.23	7.41	8.62	8.92	8.78	8.81
15	7.03	9.04	8.52	7.17	8.04	8.86	7.99	7.71	8.03	7.69	9.00	8.78
16	6.82	9.03	8.51	8.15	8.06	8.87	7.92	8.02	8.59	7.32	8.99	7.13
17	7.60	9.05	6.86	8.25	7.93	8.86	8.50	8.02	8.50	9.08	7.77	6.42
18	8.13	9.06	5.82	7.88	7.94	7.51	8.55	7.99	8.23	9.20	6.99	8.25
19	8.12	7.50	8.59	7.88	7.92	6.62	8.56	7.97	8.83	9.47	7.74	8.90
20	8.29	6.98	8.68	7.91	8.59	8.14	8.55	7.11	9.99	9.26	8.12	8.87
21	8.60	8.26	8.69	8.04	8.73	8.66	8.45	7.05	11.23	10.34	8.87	8.87
22	7.21	8.65	8.68	8.03	8.85	8.61	7.33	7.67	11.21	9.77	8.88	8.92
23	6.39	8.64	8.67	8.08	8.73	8.74	6.38	8.04	10.79	9.09	9.03	7.22
24	8.33	8.64	7.24	8.29	8.67	8.80	7.24	7.99	10.04	8.99	9.21	6.86
25	8.82	8.64	6.44	9.08	7.90	8.09	7.89	8.30	9.63	8.68	9.16	8.58
26	8.82	7.41	7.94	9.00	7.98	7.68	8.06	8.55	8.92	9.03	7.21	9.22
27	8.81	7.66	8.62	9.00	8.52	8.08	7.77	6.92	8.83	9.05	6.39	9.41
28	8.84	8.45	8.21	7.42	8.53	8.52	8.05	6.42	8.67	9.05	8.27	9.14
29	7.15	8.48	8.07	6.91	—	8.51	7.21	7.68	8.66	7.44	8.81	9.09
30	6.71	8.23	8.09	8.39	—	8.61	7.55	8.50	8.70	7.47	8.91	8.03
31	8.50	—	7.79	8.89	—	8.63	—	8.52	—	8.42	8.85	—
MEAN	7.90	8.41	8.10	8.10	8.26	8.36	8.48	7.85	8.76	8.71	8.47	8.41
MAX	8.84	9.06	8.83	9.08	8.85	8.88	10.10	8.55	11.23	10.34	9.21	9.41
MIN	6.39	6.98	5.82	6.91	7.37	6.62	6.38	6.33	6.43	7.17	6.39	6.42

WTR YR 1989 MEAN 8.32 MAX 11.23 MIN 5.82

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.

LOCATION.--Lat 32°27'45", long 84°59'52", Muscogee County, Ga.-Russell County, Ala., Hydrologic Unit 03130003, on left bank at downstream side of Central of Georgia railway bridge at Columbus, 0.5 mi downstream from Eagle and Phenix Dam, 1.2 mi downstream from City Mills Dam, 2.6 mi downstream from North Highlands Dam, 3.3 mi downstream from Oliver Dam, 17.5 mi downstream from Bartletts Ferry Dam, and at mile 159.9.

DRAINAGE AREA.--4,670 mi^2, approximately.

PERIOD OF RECORD.--August 1929 to current year. Records for December 1912, published in WSP 322, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1082: 1943(M). See also period of record.

GAGE.--Water-stage recorder. Datum of gage is 183.14 ft above National Geodetic Vertical Datum of 1929. Dec. 1-31, 1912, nonrecording gage at site 800 ft upstream at datum 2.0 ft higher, and Aug. 23, 1929, to Sept. 30, 1975, recording gage at present site, at datum 2.0 ft higher. Oct. 1, 1963, to Sept. 30, 1966, water-stage recorder at Walter F. George Reservoir, and since Oct. 1, 1966, water-stage recorder at Alabama State Docks used as auxiliary gage for this station.

REMARKS.--Estimated daily discharges: Jan. 9 to Feb. 10. Records fair except those less than 2,500 ft^3/s and those for the period of estimated daily discharges, which are poor. Flow regulated by Lake Sidney Lanier since January 1956, West Point Lake since October 1974, and by Lake Harding since 1939. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, and 02341000.) Records of chemical analyses for the period February 1968 to May 1972 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--60 years, 6,671 ft^3/s, 19.40 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145,000 ft^3/s, Feb. 26, 1961; maximum gage height, 47.8 ft, Feb. 25, 1961; minimum discharge, 294 ft^3/s, Oct. 23, Nov. 14, 1931; minimum daily, 480 ft^3/s, Oct. 31, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1827, 198,000 ft^3/s, Mar. 15, 1929, computation of flow at North Highlands Dam before redevelopment; maximum stage known, 53.2 ft, Mar. 16, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45,000 ft^3/s, June 22; maximum gage height, 21.24 ft; minimum daily discharge, 1,160 ft^3/s, Oct. 22.

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1560	5310	3550	5620	5400	4580	3400	7430	6820	3580	7240	8390
2	1620	5480	2720	5450	4900	5460	2540	5970	4300	2870	6550	2000
3	1840	4590	1630	5430	4700	7070	5900	5230	1970	14900	4960	1860
4	5300	3980	1520	2410	1600	4940	7990	4690	1660	22300	6130	7070
5	6530	2370	4490	3030	1600	2390	17000	3950	4450	23300	2550	6430
6	3940	1350	4640	2810	2100	4880	25000	2960	3470	12400	1650	6930
7	1230	5200	5140	2270	2100	5440	18300	1750	4780	15100	8300	7560
8	1260	5320	5500	1970	2200	5340	17900	4390	4550	11300	7350	6390
9	1180	5710	4630	3100	2200	4650	14600	5620	4990	9030	6140	2270
10	1300	5540	2200	2200	4600	3120	15900	4540	2140	6700	7670	1660
11	2010	4270	1820	2200	2050	2270	15900	4680	2940	5270	7690	5840
12	2680	2060	2960	2400	1310	3350	15700	6130	5080	7400	7830	5950
13	3500	1300	3450	1700	2240	5480	13500	1730	5140	9250	6610	7300
14	1730	5290	3830	1300	1670	5420	13400	2420	3670	8250	6740	7290
15	1460	6390	3410	1600	1630	5630	4600	2810	4970	4470	7050	6710
16	1320	6710	3510	2200	2480	6120	4850	2380	9850	5170	12800	1850
17	3900	5930	1880	2500	2530	6020	6240	3420	4520	8160	2190	1580
18	4400	5740	2060	2700	1710	2780	6430	2860	4280	11200	1730	6880
19	4910	1790	4530	2400	1250	1970	5870	2410	7140	10200	1630	7200
20	4100	1630	4640	1900	4110	4390	5980	2040	13800	12800	1690	7740
21	4140	4270	4450	2200	6390	5250	5290	1960	38500	25700	1870	8110
22	1160	4720	4000	1600	6180	5880	2750	4600	41700	19000	5930	7330
23	1530	4230	4070	1700	5120	10400	2560	3890	34200	12400	7620	1910
24	4330	4490	2590	3500	4540	8020	5240	4560	23700	8180	7770	1790
25	5230	4290	2310	5200	2190	4630	5130	4990	14600	12600	10700	7850
26	4620	1510	3450	6000	1390	2120	2680	4780	7810	10800	3110	9050
27	4780	3160	4900	6000	4380	3640	2860	1690	7680	10600	2080	10300
28	4560	4630	2730	1300	4750	5790	5160	2010	7140	7100	6900	9890
29	1230	4810	2580	2000	—	5590	1840	4880	6290	2710	8530	7890
30	1740	4820	4480	4100	—	5520	2090	3480	6190	2270	8450	4880
31	5090	—	5480	6000	—	4820	—	6120	—	4660	8320	—
TOTAL	94180	126890	109150	94790	87320	152960	256600	120370	288330	319670	185780	177900
MEAN	3038	4230	3521	3058	3119	4934	8553	3883	9611	10310	5993	5930
MAX	6530	6710	5500	6000	6390	10400	25000	7430	41700	25700	12800	10300
MIN	1160	1300	1520	1300	1250	1970	1840	1690	1660	2270	1630	1580

CAL YR 1988 TOTAL 1335210 MEAN 3648 MAX 16600 MIN 1100 MEAN† 3561 CFSM† .76 IN† 10.32
WTR YR 1989 TOTAL 2013940 MEAN 5518 MAX 41700 MIN 1160 MEAN† 6124 CFSM† 1.31 IN† 17.79

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, AND LAKE HARDING.

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.96	5.94	4.59	5.72	—	5.38	6.68	7.80	6.52	7.31	8.26	7.82
2	.06	6.04	3.90	5.82	—	5.93	6.62	7.91	5.65	7.17	8.23	4.82
3	6.21	5.54	3.14	5.79	—	6.96	7.83	7.51	4.19	11.73	7.59	4.80
4	7.26	5.08	3.10	4.14	—	6.23	8.56	7.26	3.96	15.54	7.90	7.01
5	7.69	4.27	4.90	4.34	—	5.56	12.68	7.16	5.39	15.77	6.79	6.87
6	6.85	3.91	5.10	4.18	—	7.09	15.58	6.60	4.91	11.80	6.58	6.90
7	5.90	5.84	5.29	3.66	—	7.24	13.22	6.37	5.48	12.02	8.71	7.01
8	5.82	5.89	5.42	3.65	—	7.13	12.72	7.11	5.53	10.37	8.55	6.67
9	5.88	6.18	4.87	—	—	6.83	12.01	7.61	5.89	9.47	7.82	4.98
10	5.91	5.98	3.31	—	—	6.23	12.85	7.11	4.76	8.79	8.36	4.78
11	5.87	5.37	3.08	—	2.92	5.86	12.60	7.19	5.25	8.17	8.28	6.71
12	5.81	3.90	4.00	—	2.44	6.36	12.06	7.61	6.34	8.71	8.36	6.61
13	5.78	3.66	4.30	—	3.19	7.28	10.95	6.16	6.58	9.31	8.34	6.97
14	5.02	5.68	4.41	—	2.83	7.45	10.75	6.48	6.11	9.19	8.43	7.11
15	4.80	6.19	4.21	—	2.72	7.35	7.85	6.66	6.67	7.91	8.42	6.72
16	4.84	6.27	4.17	—	3.08	7.39	7.72	6.27	9.11	8.37	10.74	4.28
17	5.94	5.87	3.13	—	3.05	7.34	8.16	6.41	7.68	9.39	6.85	4.11
18	6.05	5.98	3.33	—	2.37	6.24	8.13	6.10	7.66	10.30	6.15	6.68
19	6.10	4.05	4.85	—	2.08	6.02	7.78	5.68	8.77	9.88	5.75	6.76
20	5.72	4.01	4.97	—	4.20	6.93	7.62	5.39	11.06	10.76	5.87	6.87
21	5.65	5.39	4.77	—	5.97	7.29	7.27	5.25	19.41	15.69	5.79	6.91
22	4.22	5.46	4.41	—	6.15	7.68	6.34	6.37	20.54	13.42	7.09	6.83
23	4.42	5.13	4.47	—	5.70	9.74	6.49	6.00	18.91	10.86	7.55	3.49
24	5.57	5.18	3.41	—	5.11	9.60	7.45	6.15	15.10	9.49	7.54	3.38
25	6.04	4.94	3.35	—	3.73	8.18	7.22	6.32	11.72	10.73	8.87	6.55
26	5.72	3.41	4.16	—	3.45	6.66	6.39	6.19	8.91	10.00	5.78	7.44
27	5.73	4.43	4.99	—	5.18	6.79	6.18	4.76	8.60	9.84	5.29	8.09
28	5.46	5.35	3.83	—	5.43	7.50	6.82	4.80	8.46	8.66	7.18	7.94
29	3.63	5.39	3.46	—	—	7.44	5.70	5.98	8.28	6.90	7.89	7.00
30	3.90	5.30	4.54	—	—	7.51	5.54	5.34	8.22	6.79	7.79	5.01
31	5.77	—	5.20	—	—	7.32	—	6.35	—	7.59	7.68	---
MEAN	5.66	5.19	4.21	—	—	7.05	8.93	6.45	8.52	10.06	7.56	6.24
MAX	7.69	6.27	5.42	—	—	9.74	15.58	7.91	20.54	15.77	10.74	8.09
MIN	3.63	3.41	3.08	—	—	5.38	5.54	4.76	3.96	6.79	5.29	3.38

CAL YR 1988 MEAN 5.59 MAX 11.86 MIN 2.27

02341800 UPATOI CREEK NEAR COLUMBUS, GA.

LOCATION.--Lat 32°24'48", long 84°49'12", Muscogee-Chattahoochee County line, Hydrologic Unit 03130003, at downstream side of pier near left end of bridge on Red Arrow Road at Fort Benning, 2 mi downstream from Randall Creek, 2 mi upstream from Ochillee Creek, 8 mi southeast of Columbus, and 12 mi upstream from mouth.

DRAINAGE AREA.--342 mi^2.

PERIOD OF RECORD.--April 1968 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 230 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--21 years, 445 ft^3/s, 17.67 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,300 ft^3/s, Apr. 1, 1981, gage height, 21.06 ft; minimum, 72 ft^3/s, July 16, Aug. 7, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 3,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 6	1130	*3,830	*10.39	July 4	1030	3,550	10.05

Minimum discharge, 90 ft^3/s, Sept. 19-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	195	174	1150	224	384	460	503	134	232	210	177
2	111	209	166	585	199	376	388	892	134	207	192	240
3	145	200	158	420	206	974	355	556	137	876	188	206
4	205	173	152	351	183	777	390	391	132	2540	180	161
5	179	449	151	276	175	557	2490	313	130	2080	169	137
6	137	377	148	230	239	2610	1870	274	150	2190	157	132
7	118	239	146	240	248	1430	1010	246	163	1260	148	130
8	110	186	145	235	206	700	708	225	177	706	139	129
9	108	221	147	235	153	537	2480	226	236	485	138	126
10	106	251	158	235	134	459	2910	310	233	370	138	122
11	104	224	171	223	128	413	2200	296	173	306	138	117
12	102	191	189	213	143	383	1340	243	149	289	133	114
13	99	165	178	213	166	357	967	213	142	429	131	110
14	97	152	163	219	167	335	770	201	134	480	133	105
15	95	147	157	220	167	314	1620	194	146	395	186	105
16	97	146	178	242	169	297	1650	185	471	564	344	104
17	99	174	192	226	163	279	1060	174	773	623	283	101
18	99	173	179	204	160	268	787	164	409	422	220	95
19	97	157	164	193	177	257	657	161	260	340	213	90
20	95	158	158	199	189	245	589	159	258	678	173	90
21	112	183	154	211	653	469	542	161	336	1070	152	94
22	134	167	153	191	947	850	491	162	421	691	140	106
23	120	154	155	179	565	1700	449	189	1090	1080	135	108
24	112	179	155	174	389	1590	406	195	571	805	129	103
25	108	168	156	170	303	935	366	172	393	586	124	111
26	106	156	151	168	274	687	334	159	264	446	132	153
27	104	163	147	169	265	559	307	150	220	355	129	164
28	105	219	145	166	308	487	282	145	197	306	121	141
29	106	218	149	162	—	445	262	140	254	277	117	127
30	107	195	152	177	—	603	264	136	263	246	119	152
31	124	—	307	241	—	611	—	134	—	230	133	—
TOTAL	3535	5989	5098	8117	7300	20888	28404	7669	8550	21564	5044	3850
MEAN	114	200	164	262	261	674	947	247	285	696	163	128
MAX	205	449	307	1150	947	2610	2910	892	1090	2540	344	240
MIN	94	146	145	162	128	245	262	134	130	207	117	90
CFSM	.33	.59	.48	.77	.76	1.97	2.77	.72	.83	2.04	.48	.37
IN.	.38	.65	.55	.88	.79	2.27	3.09	.83	.93	2.35	.55	.42

CAL YR 1988	TOTAL	92477	MEAN	253	MAX	2170	MIN	76	CFSM	.74	IN	10.06
WTR YR 1989	TOTAL	126008	MEAN	345	MAX	2910	MIN	90	CFSM	1.01	IN	13.71

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.
(National Stream-Quality Accounting Network station)

LOCATION.–Lat 31°15'33", long 85°06'37", Early County, Ga.-Houston County, Ala., Hydrologic Unit 03130004, at left end of George W. Andrews Lock and Dam, 1.3 mi downstream from Omusee Creek, 2.3 mi south of Columbia, Ala., and at mile 46.5.

DRAINAGE AREA.–8,210 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–October 1975 to current year.

GAGE.–Gate-opening and water-stage recorders. Datum of headwater gage and tailwater gages is National Geodetic Vertical Datum of 1929.

REMARKS.–No estimated daily discharges. Records good. Flow regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Lake, and George W. Andrews Reservoir. (See "Lakes and Reservoir in Apalachicola River Basin," stations 02334400, 02339400, 02341000, and 02343240. No adjustments made for George W. Andrews Reservoir's annual change in contents, which is insignificant).

AVERAGE DISCHARGE.–14 years, 10,400 ft^3/s, 17.20 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 131,000 ft^3/s, Jan. 27, 1978, maximum headwater gage height, 118.12 ft, Jan 27, 1978, maximum tailwater gage height, 116.66 ft, Jan. 27, 1978; no flow due to non-typical operation pattern, except for an undetermined amount of leakage Nov. 22, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.–Flood of Mar. 1929, thought to be the highest since 1827, based on station on Chattahoochee River at Columbia, Ala., 2.4 mi upstream.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, 40,900 ft^3/s, Apr. 10, maximum headwater gage height, 103.21 ft, Oct. 26, maximum tailwater gage height, 96.09 ft, Apr. 11; minimum daily discharge, 498 ft^3/s, Jan 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1290	8690	8470	1440	7220	5420	2820	8620	9200	4340	9700	9590
2	954	8730	8660	6930	7440	5260	1150	11400	8430	1170	8460	1610
3	7390	8830	2170	7440	6830	6360	9570	10300	6130	11900	7890	1600
4	6950	7590	996	7730	1660	1560	10400	6910	2950	24800	8010	9930
5	6480	1780	6620	7420	779	1070	13500	6660	5950	33300	1400	8240
6	6610	984	8270	7180	5440	7840	31400	1230	4010	30100	920	7870
7	6150	7130	8320	1540	6430	9620	36000	823	5870	29800	9440	8280
8	771	8820	8540	717	6250	8490	21500	8530	4600	19600	9530	7910
9	1050	8220	8340	7690	6330	8950	23200	9760	6140	15600	9700	1650
10	7180	8420	1980	10800	6790	8640	34600	9580	3120	12300	9700	883
11	8350	9210	726	10300	1290	1670	38800	9370	1480	11900	9700	8170
12	8300	1620	4640	10300	778	937	29700	7160	3730	11700	1350	10200
13	9100	751	6080	10100	2700	7880	28100	1130	3270	12300	1170	11300
14	7550	7170	6540	2300	3450	8150	21200	757	3130	13700	10000	11600
15	1090	8810	6420	802	7260	8450	19800	7760	3370	6180	13900	12000
16	880	8590	6370	3010	9090	9720	8600	8830	7100	6660	13400	2040
17	6390	6770	1620	5370	8380	10100	12800	8590	14000	14000	13900	1270
18	8300	5840	802	3970	2000	1780	13900	8850	8030	16500	17000	10400
19	8980	1660	5410	4100	772	847	12600	8370	13600	16400	1600	12400
20	8390	871	6600	7090	4350	7340	12400	6030	19600	15500	1010	12200
21	8300	7000	7800	2130	7550	8460	12600	1570	34000	30400	10500	12400
22	1590	8890	8860	871	8160	8350	1530	9190	37100	21800	11100	12400
23	1030	8830	8100	7110	6440	13300	1100	10500	36600	12900	11200	1940
24	8720	8850	1850	8900	5730	17000	8610	9380	32400	16300	11400	889
25	8940	8700	702	8690	1640	27500	9640	7750	22100	19800	11100	10300
26	9210	1430	5800	8560	823	18100	9790	7490	14300	17600	1330	13600
27	9480	979	6620	8900	5010	10900	9620	4380	10800	17700	817	12300
28	8860	6840	7060	1040	5370	9950	7740	3750	10700	12500	11300	12300
29	1290	8700	9860	498	—	9960	5980	6270	11600	7520	12300	12300
30	783	8590	6270	7850	—	10200	6930	7970	10800	1590	12100	2010
31	6910	—	2020	7390	—	13400	—	8380	—	8720	12400	—
TOTAL	177268	189295	172516	178168	135962	267204	455580	217290	354110	474580	263327	239582
MEAN	5718	6310	5565	5747	4856	8619	15190	7009	11800	15310	8494	7986
MAX	9480	9210	9860	10800	9090	27500	38800	11400	37100	33300	17000	13600
MIN	771	751	702	498	772	847	1100	757	1480	1170	817	883

CAL YR 1988	TOTAL 2218301	MEAN 6061	MAX 29000	MIN 689	MEAN† 5911	CFSM† .72	IN† 9.78
WTR YR 1989	TOTAL 3124882	MEAN 8561	MAX 38800	MIN 498	MEAN† 8998	CFSM† 1.10	IN† 14.94

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, LAKE HARDING, AND WALTER F. GEORGE LAKE.

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1982 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
NOV 22...	0830	2260	108	104	7.50	7.50	17.0	8.0	83	32	26	26
JAN 25...	0830	9100	98	102	7.49	7.70	12.0	8.9	82	26	22	21
MAR 14...	1430	8480	95	97	7.42	7.40	13.5	10.0	96	32	26	21
MAY 25...	0715	1230	--	66	7.26	7.50	22.0	5.7	--	29	24	16
JUL 12...	0900	4490	74	77	7.01	7.40	27.5	4.3	54	32	26	19
AUG 24...	1200	13500	68	71	7.13	7.10	28.5	3.9	50	--	--	19

DATE	TUR-BID-ITY (NTU)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
NOV 22...	4.0	120	270	25	7.3	1.6	9.2	42	0.8	2.3
JAN 25...	6.1	30	800	22	6.5	1.5	9.4	44	0.9	2.7
MAR 14...	7.6	73	84	22	6.6	1.4	8.7	43	0.8	2.5
MAY 25...	27	300	1300	19	5.7	1.2	4.4	31	0.4	1.7
JUL 12...	2.7	160	65	20	5.8	1.4	6.5	38	0.6	1.9
AUG 24...	2.4	--	--	20	5.7	1.4	5.0	33	0.5	1.9

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
NOV 22...	13	6.7	0.20	8.1	70	65	427	0.09
JAN 25...	16	7.2	0.20	7.7	56	66	1380	0.08
MAR 14...	13	6.5	0.20	6.7	66	63	1510	0.09
MAY 25...	7.0	3.8	0.10	2.9	46	42	153	0.06
JUL 12...	8.0	4.6	0.20	7.1	53	52	643	0.07
AUG 24...	7.0	4.1	0.10	9.1	45	--	--	--

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DISSOLVED (MG/L AS P)	PHOSPHOROUS ORTHO, DISSOLVED (MG/L AS P)
NOV 22...	<0.010	0.190	<0.010	0.020	--	0.50	0.020	<0.010	<0.010
JAN 25...	0.010	0.510	0.050	0.030	0.35	0.40	0.020	0.010	<0.010
MAR 14...	0.010	0.430	0.030	0.020	0.77	0.80	0.010	0.010	0.010
MAY 25...	<0.010	0.160	0.050	0.050	0.35	0.40	0.040	0.020	<0.010
JUL 12...	<0.010	0.110	0.100	0.110	0.90	1.0	0.020	<0.010	<0.010
AUG 24...	<0.010	<0.100	0.090	0.090	0.41	0.50	0.030	<0.010	0.010

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 22...	<10	<1	20	<0.5	<1	<1	<3	2	44	<5
JAN 25...	60	<1	19	<0.5	<1	<1	<3	1	63	<5
MAY 25...	70	<1	19	<0.5	<1	<1	<3	2	130	<1
AUG 24...	30	<1	16	<0.5	<1	<1	<3	2	16	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 22...	<4	5	<0.1	<10	2	<1	<1.0	34	<6	4
JAN 25...	<4	4	<0.1	<10	4	<1	<1.0	32	<6	<3
MAY 25...	<4	8	<0.1	<10	1	<1	<1.0	28	<6	11
AUG 24...	<4	7	--	<10	1	<1	<1.0	30	<6	62

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
22...	0835	2260	17.0	8	49	87
JAN						
25...	0835	9100	12.0	13	320	80
MAR						
14...	1435	8480	13.5	14	321	88
MAY						
25...	0720	1230	22.0	18	60	94
JUL						
12...	0905	4490	27.5	4	49	86
AUG						
24...	1205	13500	28.5	7	256	92

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.

LOCATION.--Lat 30°58'39", long 85°00'19", Seminole County, Ga.-Jackson County, Fla., Hydrologic Unit 03130004, at Herman E. Talmadge Bridge on State Highway 91, 2 mi northwest of Steam Mill, and at mile 23.7.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow is regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Reservoir (see "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, 02341000, 02343240), and by George W. Andrews Reservoir.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH (STANDARD UNITS)	PH LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT 19...	1225	118	120	7.64	7.90	21.5	27.0	10.5	120
NOV 16...	1340	107	110	7.20	7.40	19.5	27.5	10.1	111
DEC 20...	1305	152	153	7.20	7.50	12.5	22.0	12.0	112
JAN 18...	1355	110	132	7.30	7.20	15.0	20.0	11.7	116
FEB 15...	1325	118	132	7.20	7.40	15.5	22.5	11.8	118
MAR 22...	1335	118	120	7.50	7.20	16.5	15.0	9.6	99
APR 19...	1355	88	88	7.30	--	19.0	28.0	8.8	96
MAY 17...	1355	90	92	7.40	7.40	23.0	32.0	9.2	108
JUN 21...	0000	83	83	7.00	7.00	24.5	25.5	7.2	87
JUL 19...	1340	83	85	7.00	7.10	27.5	29.0	6.4	82
AUG 23...	1325	87	90	7.10	6.90	28.0	32.0	7.3	94
SEP 20...	1205	85	84	7.30	7.20	28.0	24.5	9.5	123

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.–Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	50	7.0	2.9	130	29	5	0.020	<0.030	0.020	5.3
NOV 16...	20	7.0	2.3	330	26	12	0.300	<0.030	0.100	4.1
DEC 20...	30	6.0	2.4	330	32	10	0.520	0.120	0.080	5.4
JAN 18...	40	8.0	1.6	40	36	8	0.650	0.090	0.060	4.8
FEB 15...	20	7.0	1.8	20	27	7	0.600	0.060	0.230	4.9
MAR 22...	35	10	1.9	120	26	1	0.520	0.040	0.050	4.5
APR 19...	20	14	2.2	--	--	33	0.300	<0.030	0.060	6.3
MAY 17...	20	12	2.4	80	23	21	0.270	<0.030	0.110	6.5
JUN 21...	50	25	1.5	330	20	26	0.110	0.140	0.100	5.0
JUL 19...	25	25	1.3	330	21	39	0.180	0.070	0.090	6.3
AUG 23...	30	9.0	2.2	230	24	17	0.190	0.190	0.040	5.1
SEP 20...	5	3.0	1.3	20	20	<1	0.100	<0.030	0.290	--

02344180 FLINT RIVER NEAR JONESBORO, GA.

LOCATION.--Lat 33°32'14", long 84°22'35", Clayton County, Hydrologic Unit 03130005, at bridge on State Highway 138, 0.8 mi west of U.S. Highway 41, 1.5 mi northwest of Jonesboro, and at mile 338.1.

DRAINAGE AREA.--39.1 mi².

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 06...	1000	147	143	7.10	7.10	15.0	16.0	8.1	82
NOV 02...	1100	110	110	6.80	6.90	12.0	21.0	6.5	62
DEC 06...	1110	138	--	6.90	7.10	6.5	15.0	9.8	81
JAN 04...	1145	85	85	6.78	6.60	8.0	10.0	10.0	86
FEB 07...	1045	110	107	6.70	6.80	10.0	7.5	8.0	72
MAR 08...	1020	121	139	6.90	7.00	7.5	6.0	9.8	83
APR 04...	1030	111	112	6.80	6.70	16.0	20.5	6.2	64
MAY 02...	1120	73	71	6.60	7.00	17.5	20.0	6.3	67
JUN 06...	0930	99	99	6.70	6.70	21.5	22.0	5.0	58
JUL 12...	0920	121	117	7.10	7.00	24.0	28.0	5.5	67
AUG 01...	0910	119	120	6.90	6.80	24.5	27.0	5.1	--
SEP 11...	1020	162	164	7.17	7.30	24.5	29.0	6.0	74

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 06...	15	1.1	330000	33	10	0.390	0.100	0.050	7.9
NOV 02...	16	3.5	1300	30	2	0.190	<0.030	0.060	7.3
DEC 06...	12	1.8	220	38	5	0.280	0.260	0.060	2.2
JAN 04...	80	3.6	700	21	43	0.450	0.610	0.050	7.6
FEB 07...	60	1.6	2300	31	62	0.240	0.110	0.200	6.2
MAR 08...	16	1.6	130	35	6	0.130	0.120	0.090	4.3
APR 04...	35	1.5	1300	28	19	0.340	0.070	0.080	5.6
MAY 02...	88	2.3	15000	16	31	0.330	0.070	0.080	7.4
JUN 06...	56	2.2	44500	23	34	0.360	0.090	0.240	8.3
JUL 12...	17	1.2	490	34	8	0.320	0.070	0.100	3.6
AUG 01...	28	1.7	--	28	16	0.370	0.090	0.120	5.9
SEP 11...	12	1.2	--	42	10	0.170	0.070	0.150	4.6

02344190 FLINT RIVER NEAR FAYETTEVILLE, GA.

LOCATION.--Lat 33°29'13", long 84°23'44", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on State Highway 54, 200 ft east of Thomas Road, 0.2 mi upstream from Camp Creek, 4.4 mi northeast of Fayetteville, and at mile 333.7.

DRAINAGE AREA.--49 mi^2.

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
06...	1020	114	114	7.10	6.80	15.0	17.0	7.2	72
NOV									
02...	1125	117	114	6.70	6.70	12.0	21.0	4.6	44
DEC									
06...	1130	120	130	7.30	7.10	7.0	16.0	10.9	91
JAN									
04...	1210	80	83	6.75	6.60	8.0	10.0	10.4	89
FEB									
07...	1200	106	105	6.80	6.80	10.0	8.0	7.6	68
MAR									
08...	1040	110	115	6.90	6.90	7.5	6.0	9.1	78
APR									
04...	1055	130	133	6.70	7.00	16.0	21.0	6.9	72
MAY									
02...	1140	57	57	6.30	6.60	19.0	21.5	5.0	55
JUN									
06...	0950	136	140	7.00	7.20	21.5	22.0	5.6	65
JUL									
12...	0950	95	91	7.00	6.70	24.0	28.0	5.1	62
AUG									
01...	0930	85	85	6.70	6.70	24.5	28.0	4.7	--
SEP									
11...	1045	148	148	7.22	7.20	24.5	29.0	5.5	68

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
06...	23	1.2	1100	26	15	0.290	0.080	0.090	3.6
NOV									
02...	19	4.0	1800	27	6	0.140	<0.030	0.120	7.7
DEC									
06...	15	1.7	130	37	1	0.200	0.110	0.080	2.5
JAN									
04...	52	2.6	490	19	31	0.260	1.51	0.120	7.8
FEB									
07...	20	1.2	790	28	11	0.220	0.070	0.150	4.8
MAR									
08...	23	1.3	330	30	6	0.250	0.090	0.110	3.8
APR									
04...	21	1.0	3300	36	13	0.340	0.110	0.080	5.0
MAY									
02...	100	3.2	22000	15	30	0.290	0.040	0.130	5.0
JUN									
06...	29	0.7	700	37	23	0.380	0.050	0.310	7.8
JUL									
12...	46	1.1	300	28	49	0.280	0.060	0.220	3.1
AUG									
01...	60	2.0	--	18	35	0.460	0.050	0.190	7.0
SEP									
11...	17	0.9	--	38	8	0.200	0.040	0.180	4.4

02344350 FLINT RIVER NEAR LOVEJOY, GA.

LOCATION.–Lat 33°24'56", long 84°23'05", Clayton County, Hydrologic Unit 03130005, at the downstream side of bridge on Hampton Road, 0.7 mi upstream from Shoal Creek, 4.4 mi southwest of Lovejoy, 4.7 mi southeast of Fayetteville, and at mile 325.7.

DRAINAGE AREA.–130 mi^2.

PERIOD OF RECORD.–May 1985 to current year.

GAGE.–Water-stage recorder. Datum of gage is 758.75 ft above National Geodetic Vertical Datum of 1929 (levels by Clayton County Water Authority).

REMARKS.–Estimated daily discharge: Apr. 7-May 16. Records good, except those for the period of estimated daily discharge, which are poor. Discharge affected by diversion by the Clayton County Water Authority.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 4,690 ft^3/s, Oct. 15, 1986, gage height, 15.16 ft; minimum daily discharge, 12 ft^3/s, Oct. 20, 1987.

EXTREMES FOR CURRENT YEAR.-Peak discharges greater than base discharge of 1,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 6	0300	2,310	11.60	July 4	1800	1,720	10.51
June 21	1400	*3,140	*12.86	Sept. 27	0400	2,370	11.71

Minimum daily discharge, 19 ft^3/s, Sept. 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	52	109	206	70	318	123	160	24	81	111	40
2	78	107	84	223	58	224	82	300	24	71	130	41
3	883	68	72	131	55	145	70	600	42	110	77	32
4	600	48	65	180	58	166	87	350	61	1190	66	28
5	158	100	60	228	78	135	1090	200	44	987	56	24
6	72	502	58	105	111	153	1760	150	58	478	48	24
7	49	303	55	81	118	179	1050	120	165	358	44	29
8	40	101	53	70	157	121	750	110	250	366	41	37
9	36	70	52	67	126	90	500	100	101	323	39	29
10	33	70	51	71	83	78	570	170	68	280	38	25
11	32	67	50	61	72	72	650	280	53	418	37	23
12	30	71	51	60	68	70	430	210	43	169	36	22
13	28	66	49	116	64	66	270	160	35	139	36	25
14	27	57	48	465	56	62	210	110	28	432	35	25
15	30	48	48	206	51	59	250	90	57	382	38	27
16	32	52	48	150	50	59	260	160	323	489	95	25
17	28	52	48	120	48	59	210	108	1030	1000	74	29
18	25	83	46	94	47	56	170	72	756	693	78	25
19	25	78	43	84	60	54	145	60	197	255	95	20
20	29	60	41	75	74	50	125	56	439	503	51	19
21	47	62	41	67	132	86	110	60	2540	717	40	19
22	99	69	44	62	777	424	100	62	1420	591	36	21
23	106	53	43	62	464	567	93	52	534	254	33	55
24	55	47	43	58	145	857	85	99	231	170	32	59
25	39	46	47	54	99	528	77	75	137	136	32	55
26	33	45	45	53	84	188	69	51	101	108	30	514
27	34	92	42	54	80	126	62	43	81	89	31	1850
28	34	640	43	57	101	101	56	40	76	78	44	523
29	37	673	44	58	—	87	50	36	100	68	33	250
30	34	204	52	53	—	111	90	30	112	62	32	663
31	34	—	75	64	—	205	—	25	—	63	36	—
TOTAL	2810	3986	1650	3435	3386	5496	9594	4139	9130	11060	1604	4558
MEAN	90.6	133	53.2	111	121	177	320	134	304	357	51.7	152
MAX	883	673	109	465	777	857	1760	600	2540	1190	130	1850
MIN	23	45	41	53	47	50	50	25	24	62	30	19
CFSM	.70	1.02	.41	.85	.93	1.36	2.46	1.03	2.34	2.75	.40	1.17
IN.	.80	1.14	.47	.98	.97	1.57	2.75	1.18	2.61	3.16	.46	1.30

CAL YR 1988	TOTAL	40069	MEAN	109	MAX	2110	MIN	14	CFSM	.84	IN 11.47
WTR YR 1989	TOTAL	60848	MEAN	167	MAX	2540	MIN	19	CFSM	1.29	IN 17.41

02344380 FLINT RIVER NEAR INMAN, GA.

LOCATION.--Lat 33°23'08", long 84°23'24", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on Hill Bridge Road, 0.6 mi downstream from Gay Creek, and 1.4 mi east of State Highway 92 at Inman, and at mile 322.3.

DRAINAGE AREA.--158 mi².

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
06...	1120	87	80	79	6.90	6.90	16.5	19.0	7.8	81
NOV										
02...	1200	115	117	113	7.00	7.20	12.5	23.0	7.3	70
DEC										
06...	1200	--	91	93	7.40	7.10	7.0	18.0	10.6	89
JAN										
04...	1330	--	72	77	6.81	6.80	8.5	11.5	10.2	89
FEB										
07...	1230	125	96	95	6.80	7.10	11.0	8.0	8.0	74
MAR										
08...	1140	135	85	87	6.90	6.90	8.0	5.0	9.8	84
APR										
04...	1135	85	85	85	6.70	7.00	16.0	22.0	7.8	81
MAY										
02...	1220	590	69	67	6.60	7.10	18.0	22.5	6.0	65
JUN										
06...	1030	64	90	87	6.90	6.90	22.0	24.0	6.3	74
JUL										
12...	1020	195	78	74	6.90	6.60	24.0	29.0	5.3	64
AUG										
01...	1030	90	95	95	7.00	7.20	26.0	29.0	5.5	--

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
06...	--	27	0.9	130	18	13	0.160	0.050	0.190	3.7
NOV										
02...	--	11	1.4	330	34	4	<0.020	<0.030	0.180	6.5
DEC										
06...	--	14	1.7	20	26	2	0.190	0.080	0.150	2.5
JAN										
04...	--	33	1.9	220	20	16	0.930	0.800	0.160	6.8
FEB										
07...	--	17	0.9	140	25	9	0.260	0.070	0.170	3.8
MAR										
08...	60	21	0.6	80	22	5	0.230	0.030	0.150	4.2
APR										
04...	--	15	1.0	270	27	7	0.190	0.090	0.080	5.1
MAY										
02...	--	66	1.9	3300	19	24	0.310	0.110	0.240	7.7
JUN										
06...	--	26	0.4	130	25	15	0.250	0.070	0.260	4.7
JUL										
12...	--	24	1.2	110	22	14	0.190	0.040	0.160	3.5
AUG										
01...	--	21	0.8	--	27	9	0.230	0.070	0.160	4.8

02344400 FLINT RIVER ABOVE GRIFFIN, GA.

LOCATION.--Lat 33°18'33", long 84°23'36", Spalding-Fayette County line, Hydrologic Unit 03130005, at bridge on State Highway 92, 3.4 mi upstream from Central of Georgia Railroad bridge, 8.5 mi northwest of Griffin, and at mile 313.2.
DRAINAGE AREA.--194 mi².
PERIOD OF RECORD.--July 1975 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
06...	1200	84	72	69	6.70	6.80	16.5	21.0	7.2	75
NOV										
02...	1230	48	101	98	7.00	7.20	13.0	24.0	7.4	72
DEC										
06...	1230	--	85	85	7.30	7.00	6.5	19.5	10.6	88
JAN										
04...	1300	145	68	73	6.82	6.90	8.5	10.5	10.0	87
FEB										
07...	1310	88	87	86	6.90	7.10	11.0	8.5	8.3	76
MAR										
08...	1220	125	80	81	7.00	6.90	8.0	5.0	9.7	83
APR										
04...	1200	59	83	81	6.70	7.00	16.0	23.0	7.5	78
MAY										
02...	1245	530	59	57	6.70	7.00	18.5	23.0	6.1	67
JUN										
06...	1100	52	90	89	7.00	7.10	22.5	25.0	5.9	70
JUL										
12...	1050	320	75	71	6.90	7.00	24.0	31.5	5.1	62
AUG										
01...	1110	44	94	93	7.10	6.90	26.0	31.0	5.2	--
SEP										
11...	1145	18	108	106	7.25	7.30	25.5	31.0	5.0	63

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT						
06...	33	<5	0.9	270	17	13
NOV						
02...	8.0	22	1.7	410	30	<1
DEC						
06...	15	19	1.7	230	23	1
JAN						
04...	24	29	2.0	750	19	10
FEB						
07...	16	22	0.8	250	25	6
MAR						
08...	20	<5	1.5	50	20	4
APR						
04...	13	23	0.2	170	26	5
MAY						
02...	76	35	2.0	13000	21	34
JUN						
06...	21	18	0.6	630	27	16
JUL						
12...	26	29	1.2	70	20	8
AUG						
01...	20	15	0.7	--	31	10
SEP						
11...	17	12	1.1	--	33	4

02344400 FLINT RIVER ABOVE GRIFFIN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
06...	0.110	0.040	0.86	0.90	1.0	0.180	6.2
NOV							
02...	<0.020	<0.030	--	0.40	--	0.120	5.3
DEC							
06...	0.140	0.070	0.43	0.50	0.64	0.140	2.7
JAN							
04...	0.970	1.09	--	--	--	0.120	5.4
FEB							
07...	0.160	0.050	0.25	0.30	0.46	0.170	3.5
MAR							
08...	0.190	0.060	0.34	0.40	0.59	0.140	4.4
APR							
04...	0.160	0.070	0.33	0.40	0.56	0.070	5.7
MAY							
02...	0.280	0.050	0.65	0.70	0.98	0.250	9.3
JUN							
06...	0.250	0.070	0.23	0.30	0.55	0.230	4.7
JUL							
12...	0.220	0.040	0.56	0.60	0.82	0.140	--
AUG							
01...	0.230	0.040	0.36	0.40	0.63	0.200	4.9
SEP							
11...	0.200	<0.030	--	--	--	0.190	4.4

02344500 FLINT RIVER NEAR GRIFFIN, GA.

LOCATION.–Lat 33°14'39", long 84°25'45", Spalding County, Hydrologic Unit 03130005, at downstream side of pier of bridge on State Highway 16, 1.5 mi downstream from Shoal Creek, 5.5 mi upstream from Line Creek, 10 mi west of Griffin, and at mile 304.4.

DRAINAGE AREA.–272 mi^2.

PERIOD OF RECORD.–March 1937 to current year.

GAGE.–Water-stage recorder. Datum of gage is 711.44 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Aug. 25, 1938, nonrecording gage at present site at datum 3.00 ft higher. Aug. 25, 1938, to May 5, 1941, nonrecording gage, May 6, 1941, to Aug. 20, 1959, water-stage recorder, and Aug. 21, 1959 to Sept. 13, 1960, nonrecording gage, all at present site and datum.

REMARKS.–No estimated daily discharges. Records good. Some diurnal fluctuation at low flow. City of Griffin diverts approximately 8 ft^3/s for municipal supply at pumping plant 6 mi upstream from gage. Approximately 1 ft^3/s of the diversion discharged as sewage effluent into tributaries of Towaliga River, and approximately 3 ft^3/s returned as sewage effluent to Flint River approximately 49 mi downstream. Records of chemical analyses for the water years 1968-69, 1971-72, are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.–52 years, 345 ft^3/s, 17.22 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 13,200 ft^3/s, Nov. 27, 1948, gage height, 18.0 ft; minimum daily discharge, 0.79 ft^3/s, July 2, 3, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.–Flood of Mar. 14 or 15, 1929, reached a stage of 17.9 ft, present datum, from floodmark located by local resident, discharge, 15,300 ft^3/s.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 7	0800	2,470	11.30	June 22	1800	*3,390	*12.16

Minimum daily discharge, 23 ft^3/s, Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	63	610	255	107	267	313	177	50	195	113	44
2	92	70	242	327	115	415	238	585	59	160	156	48
3	259	127	174	353	105	464	174	852	56	261	176	54
4	552	120	151	371	105	340	197	1300	71	637	123	47
5	982	127	136	355	116	316	1120	677	113	1160	104	39
6	465	189	119	359	159	345	1810	258	158	1620	89	29
7	154	359	113	229	188	342	2310	223	265	1040	78	28
8	99	481	110	180	207	316	1430	240	298	540	60	30
9	78	225	108	158	225	244	1160	191	333	503	55	41
10	66	142	108	141	205	194	1250	355	203	481	50	46
11	55	129	110	141	144	173	1420	570	136	540	50	40
12	49	119	110	129	124	162	1130	806	107	491	50	32
13	46	116	102	187	116	152	670	626	80	333	53	36
14	42	113	99	303	107	142	407	245	76	232	45	32
15	39	95	96	512	100	131	420	215	72	563	78	36
16	42	84	102	436	91	126	472	202	309	688	83	52
17	47	93	103	274	89	125	490	266	810	703	120	44
18	40	108	99	218	93	124	409	194	1060	973	118	37
19	36	121	94	174	103	121	270	139	1250	1100	108	34
20	35	149	89	160	123	114	238	124	970	751	127	27
21	38	151	87	147	322	150	224	118	2540	747	85	23
22	70	128	87	130	557	336	196	115	3230	1080	57	24
23	125	127	91	119	716	783	176	160	2470	971	49	26
24	145	110	92	115	881	1210	159	135	1300	558	43	47
25	92	103	93	108	375	1170	148	148	581	292	39	80
26	66	94	94	100	228	1090	136	134	273	228	43	221
27	54	164	90	102	191	495	125	99	194	185	46	341
28	51	477	85	104	204	281	116	82	167	156	43	1180
29	55	603	86	108	—	227	108	71	229	135	42	1320
30	61	916	85	107	—	227	101	62	203	131	42	795
31	60	—	138	100	—	266	—	56	—	117	36	—
TOTAL	4045	5903	3903	6502	6096	10848	17417	9425	17663	17571	2361	4833
MEAN	130	197	126	210	218	350	581	304	589	567	76.2	161
MAX	982	916	610	512	881	1210	2310	1300	3230	1620	176	1320
MIN	35	63	85	100	89	114	101	56	50	117	36	23
CFSM	.48	.72	.46	.77	.80	1.29	2.14	1.12	2.17	2.09	.28	.59
IN.	.55	.81	.53	.89	.83	1.48	2.38	1.29	2.42	2.40	.32	.66

CAL YR 1988	TOTAL	65269.38	MEAN	178	MAX	2810	MIN	.79	CFSM	.65	IN	8.93
WTR YR 1989	TOTAL	106567.00	MEAN	292	MAX	3230	MIN	23	CFSM	1.07	IN	14.57

02344700 LINE CREEK NEAR SENOIA, GA.

LOCATION.--Lat 33°19'10", long 84°31'25", Coweta-Fayette County line, Hydrologic Unit 03130005, on downstream side of bridge on State Highway 85, 2.2 mi northeast of Senoia, 4.1 mi upstream from Whitewater Creek, and 11.2 mi upstream from mouth.

DRAINAGE AREA.--101 mi^2, approximately.

PERIOD OF RECORD.--September 1964 to current year.

REVISED RECORDS.-- WDR GA-87-1: 1986 (m).

GAGE.--Water-stage recorder. Elevation of gage is 740 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: May 28-June 21. Records good, except those for the periods of estimated daily discharges, which are poor. Low flow affected by withdrawals and return flow by several municipalities and by regulation of water level of Lake Peachtree.

AVERAGE DISCHARGE.--25 years, 127 ft^3/s, 17.08 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,580 ft^3/s, Nov. 5, 1977, gage height, 14.88 ft; minimum daily discharge, 1.0 ft^3/s, Oct. 7, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 6	0800	*1,560	*9.47	June 21	unknown	1,480	9.33

Minimum daily discharge, 10 ft^3/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	24	91	106	49	145	110	198	32	84	55	82
2	45	28	83	104	46	135	87	732	36	84	66	225
3	397	25	72	86	43	129	76	654	40	141	65	136
4	451	22	64	158	44	121	85	240	60	281	80	78
5	112	120	57	141	50	107	708	135	49	565	61	57
6	57	212	51	96	67	114	1370	114	85	501	49	48
7	36	142	48	79	74	147	613	100	130	293	42	46
8	25	75	46	68	80	125	297	79	170	180	36	43
9	20	56	46	63	71	96	353	72	90	127	33	38
10	17	48	45	58	58	82	441	162	70	110	31	35
11	16	40	44	55	53	73	412	151	50	120	30	32
12	14	35	42	53	49	69	277	111	40	90	28	32
13	16	31	41	101	46	65	191	82	36	72	26	31
14	13	29	40	150	45	56	161	70	32	92	26	31
15	12	28	39	121	41	53	196	103	80	702	193	32
16	12	27	38	101	38	52	243	114	550	554	442	31
17	12	27	38	82	37	52	183	89	400	474	221	34
18	11	31	37	69	40	52	129	67	140	424	114	34
19	12	33	35	54	48	51	107	49	250	257	79	28
20	12	32	34	55	60	46	94	47	450	348	62	25
21	15	34	34	55	139	85	85	52	1100	660	52	24
22	41	33	35	49	317	231	79	44	730	426	46	25
23	47	30	35	47	313	342	73	50	421	255	41	29
24	31	30	36	44	150	523	65	67	188	174	39	29
25	22	28	38	44	108	438	57	48	125	134	36	37
26	17	27	37	43	89	229	48	44	97	107	32	230
27	12	80	36	44	80	149	42	42	77	87	29	492
28	15	304	37	44	100	119	35	40	65	73	28	292
29	18	301	39	43	—	103	32	38	68	66	27	147
30	18	149	39	42	—	124	36	36	105	59	26	218
31	18	—	59	46	—	138	—	34	—	52	29	—
TOTAL	1554	2081	1416	2303	2335	4251	6685	3864	5766	7592	2124	2621
MEAN	50.1	69.4	45.7	74.3	83.4	137	223	125	192	245	68.5	87.4
MAX	451	304	91	158	317	523	1370	732	1100	702	442	492
MIN	10	22	34	42	37	46	32	34	32	52	26	24
CFSM	.50	.69	.45	.74	.83	1.36	2.21	1.24	1.90	2.43	.68	.87
IN.	.57	.77	.52	.85	.86	1.57	2.46	1.42	2.12	2.80	.78	.97

CAL YR 1988	TOTAL	24692.9	MEAN	67.5	MAX	1830	MIN	1.9	CFSM	.67	IN	9.09
WTR YR 1989	TOTAL	42592.0	MEAN	117	MAX	1370	MIN	10	CFSM	1.16	IN	15.69

02346180 FLINT RIVER NEAR THOMASTON, GA.

LOCATION.–Lat 32°50'20", long 84°25'27", Upson-Talbot County line, Hydrologic Unit 03130005, at downstream end of left bank pier of bridge on State Highway 36, 2.5 mi upstream from Lazar Creek, and 7.8 mi southwest of Thomaston.
DRAINAGE AREA.–1,220 mi², approximately.
PERIOD OF RECORD.–May 1966 to current year.
GAGE.–Water-stage recorder. Datum of gage is 490.00 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).
REMARKS.–No estimated daily discharges. Records good.
AVERAGE DISCHARGE.–23 years, 1,546 ft³/s, 17.21 in/yr.
EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 34,400 ft³/s, Mar. 3, 1971, gage height, 18.4 ft, from floodmarks; minimum daily discharge, 55 ft³/s, July 22, 1986.
EXTREMES OUTSIDE PERIOD OF RECORD.–Flood of Nov. 28, 1948 reached a stage of 19.3 ft, from floodmarks.
EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 6	1500	*8,190	*11.75	No other peak greater than base discharge.			

Minimum daily discharge, 220 ft³/s, Oct. 20

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	355	1940	1240	631	1140	1430	851	378	1090	634	442
2	408	371	1320	1380	627	1300	1260	2590	365	946	595	445
3	914	364	882	1260	618	1930	1040	2950	400	1510	613	532
4	1330	382	759	1290	598	1800	1030	3220	395	4520	624	521
5	1870	494	683	1340	603	1500	4820	2800	425	5350	566	421
6	1560	609	629	1290	765	1860	7770	1710	753	4250	523	368
7	807	911	587	1100	840	1770	7220	1140	1110	4350	471	339
8	456	1030	566	908	860	1550	6270	963	1110	3320	432	322
9	359	917	564	830	846	1340	5610	918	1400	2180	398	314
10	313	634	574	767	817	1130	5920	1560	1090	2400	372	306
11	289	535	565	717	741	987	6590	2120	757	2110	363	324
12	268	490	566	694	653	915	5370	1930	578	1790	345	321
13	250	464	554	734	612	868	3820	1720	502	1610	337	385
14	237	449	534	1070	593	820	2510	1360	438	1170	345	375
15	231	443	523	1390	587	779	2410	953	442	1570	389	353
16	224	429	534	1500	580	822	2780	927	1180	4780	612	342
17	222	459	548	1240	560	883	2470	926	2940	5080	1300	341
18	229	498	532	990	559	820	2070	916	2960	3700	1500	319
19	228	492	509	870	581	764	1640	773	3280	3240	806	302
20	220	503	496	793	614	717	1360	671	3350	3440	575	286
21	233	599	490	756	1350	833	1230	625	4720	3340	526	270
22	274	582	490	713	2540	1570	1140	611	5180	3660	461	265
23	298	535	492	664	2480	3260	1040	682	6610	4110	414	260
24	368	512	498	629	2340	4610	956	894	6040	4160	381	252
25	385	481	512	605	1870	4230	893	828	3560	2820	354	302
26	336	466	503	588	1190	3650	836	716	1680	1820	333	631
27	300	733	492	582	978	2800	784	607	1090	1270	316	1240
28	286	1980	494	582	995	1730	729	531	876	1020	306	1570
29	280	2360	493	582	—	1340	687	476	1690	869	299	2230
30	290	2210	497	603	—	1390	648	436	1410	767	327	2450
31	322	—	712	641	—	1560	—	404	—	702	410	—
TOTAL	14038	21287	19538	28348	27028	50668	82333	37808	56709	82944	15927	16828
MEAN	453	710	630	914	965	1634	2744	1220	1890	2676	514	561
MAX	1870	2360	1940	1500	2540	4610	7770	3220	6610	5350	1500	2450
MIN	220	355	490	582	559	7*7	648	404	365	702	299	252
CFSM	.37	.58	.52	.75	.79	1.34	2.25	1.00	1.55	2.19	.42	.46
IN.	.43	.65	.60	.86	.82	1.54	2.51	1.15	1.73	2.53	.49	.51

CAL YR 1988 TOTAL 294669 MEAN 805 MAX 6880 MIN 65 CFSM .66 IN 8.98
WTR YR 1989 TOTAL 453456 MEAN 1242 MAX 7770 MIN 220 CFSM 1.02 IN 13.83

02347500 FLINT RIVER NEAR CULLODEN, GA.

LOCATION.–Lat 32°43'17", long 84°13'57", Taylor-Upson County line, Hydrologic Unit 03130005, on left bank underneath bridge on U.S. Highway 19, 4 mi upstream from Auchumpkee Creek, 5 mi downstream from Swift Creek, 13 mi southwest of Culloden, and at mile 238.4.

DRAINAGE AREA.–1,850 mi^2, approximately.

PERIOD OF RECORD.–July 1911 to May 1923, July 1928 to December 1931, March 1937 to current year.

REVISED RECORDS.–WSP 697: 1911-23. WSP 1002: 1943. WSP 1504: 1913, 1916-17, 1918(M), 1919-22, 1923(M), drainage area.

GAGE.–Water-stage recorder. Datum of gage is 334.54 ft above National Geodetic Vertical Datum of 1929. July 1, 1911 to Oct. 11, 1918, nonrecording gage and Oct. 12, 1918 to May 31, 1923, water-stage recorder, at site 2.5 mi downstream at different datum. July 21, 1928 to Dec. 31, 1931, and Mar. 18, 1937 to May 3, 1939, nonrecording gage at present site and datum.

REMARKS.–No estimated daily discharges. Records good. Records of chemical analyses for the water years 1968-79 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.–66 years (water years 1912-22, 1929-31, 1938-89), 2,334 ft^3/s, 17.13 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 92,000 ft^3/s, Mar. 15, 1929, gage height, 38.4 ft, from graph based on gage readings; minimum, 81 ft^3/s, Aug. 7, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known since at least 1912, that of Mar. 15, 1929.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 11,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 4	1100	*12,900	*14.53	No other peak greater than base discharge.			

Minimum discharge, 317 ft^3/s Oct. 20-21, gage height, 1.64 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342	470	2310	2530	857	1550	2150	1010	518	1480	926	1170
2	348	511	1840	2230	824	1730	1840	2880	492	1260	857	993
3	778	516	1220	1860	801	3480	1590	3550	496	3020	831	762
4	1230	503	994	1670	782	3290	1420	3540	515	10900	853	780
5	1780	710	891	1690	760	2530	6490	3370	516	10100	796	656
6	1900	879	831	1630	843	4720	9730	2410	720	7790	735	566
7	1300	934	787	1520	1000	4300	8850	1570	1300	6420	672	526
8	752	1110	754	1280	1030	2760	7420	1280	1470	4880	620	493
9	576	1130	729	1130	1040	2220	8910	1160	1600	3260	584	476
10	500	985	740	1040	1010	1840	9650	1860	1520	2890	551	461
11	458	825	744	972	984	1570	10200	3110	1100	3070	528	445
12	427	743	749	928	900	1400	8000	2550	834	2340	510	480
13	398	682	747	925	836	1280	5700	2140	703	2380	493	588
14	371	638	723	1130	798	1190	4020	1840	611	2010	490	592
15	354	614	698	1530	774	1110	5170	1350	575	2550	535	524
16	342	604	713	1760	755	1060	5120	1170	878	6880	647	497
17	333	602	735	1640	733	1170	4100	1140	3480	6220	1110	492
18	328	635	730	1320	721	1130	3320	1100	3680	4590	1880	470
19	329	668	698	1150	749	1030	2710	996	3370	3810	1270	439
20	322	663	672	1040	783	965	2240	880	3480	4010	849	413
21	322	707	659	989	1380	994	1990	831	5530	5000	723	393
22	341	777	653	947	3800	1680	1810	802	6070	4340	654	380
23	377	754	646	893	3490	3770	1630	825	7510	5280	589	376
24	408	706	642	852	2970	6490	1470	1090	7060	5970	545	364
25	468	672	653	821	2570	5640	1340	1120	4720	3920	510	388
26	479	638	659	795	1860	4710	1220	936	2430	2600	480	655
27	442	633	644	771	1420	3920	1130	821	1510	1880	481	1240
28	411	1780	636	765	1330	2750	1040	711	1180	1500	452	1590
29	395	2770	645	756	—	2030	964	637	1440	1260	463	2070
30	389	2580	642	774	—	1860	909	582	2020	1090	601	2750
31	399	—	877	868	—	2270	—	548	—	1010	568	—
TOTAL	17599	26439	25661	38206	35800	76439	122133	47809	67328	123710	21803	22029
MEAN	568	881	828	1232	1279	2466	4071	1542	2244	3991	703	734
MAX	1900	2770	2310	2530	3800	6490	10200	3550	7510	10900	1880	2750
MIN	322	470	636	756	721	965	909	548	492	1010	452	364
CFSM	.31	.48	.45	.67	.69	1.33	2.20	.83	1.21	2.16	.38	.40
IN.	.35	.53	.52	.77	.72	1.54	2.46	.96	1.35	2.49	.44	.44

CAL YR 1988	TOTAL	406932	MEAN	1112	MAX	8950	MIN	118	CFSM	.60	IN	8.18
WTR YR 1989	TOTAL	624956	MEAN	1712	MAX	10900	MIN	322	CFSM	.93	IN	12.57

02349500 FLINT RIVER AT MONTEZUMA, GA.

LOCATION.–Lat 32°17'53", long 84°02'38", Macon County, Hydrologic Unit 03130006, near left bank on downstream end of pier of bridge on State Highway 49, 1,000 ft upstream from Central of Georgia Railway bridge, 1,400 ft upstream from Seaboard Coast Line Railroad (formerly Atlanta, Birmingham and Coast) bridge, just upstream from Buck Creek, 1 mi west of Montezuma and at mile 180.6.

DRAINAGE AREA.–2,900 mi^2, approximately; includes that of Buck Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–October 1904 to December 1912 (published as "near Montezuma"), July 1930 to current year. Monthly discharge only for January to December 1910, published in WSP 1304. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

REVISED RECORDS.–WSP 822: Drainage area. WSP 852: 1936(M). WSP 1504: 1905-9, 1911-12, drainage area (at site used prior 1912). WDR GA-82-1: 1981(P).

GAGE.–Water-stage recorder. Datum of gage is 255.83 ft above National Geodetic Vertical Datum of 1929. January 1905 to December 1909, and January 1911 to December 1912, nonrecording gage at site 1.5 mi upstream at same datum. July 1, 1930 to June 30, 1933, and Oct. 1, 1934 to Dec. 12, 1941, nonrecording gage, and Dec. 13, 1941 to Oct. 25, 1955, water-station recorder at site 500 ft downstream at same datum.

REMARKS.–No estimated daily discharges. Records good. Records include flow of Buck Creek. Prior to Dec. 31, 1963, when operation was discontinued, moderate diurnal fluctuation at low flow caused by powerplant above station.

AVERAGE DISCHARGE.–67 years (water years 1905-12, 1931-89), 3,505 ft^3/s, 16.41 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 68,900 ft^3/s, Nov. 30, 1948, gage height, 25.2 ft; minimum, 440 ft^3/s, Aug. 8, 9, 1986.

FLOODS OUTSIDE PERIOD OF RECORD.–Flood on Mar. 2, 1897, reached a stage of 26.0 ft at former site, from National Weather Service, discharge, 97,000 ft^3/s, from rating curve extended above 10,000 ft^3/s on basis of peak flows passing upstream and downstream stations. Flood on Mar. 17, 1929, reached a stage of 27.4 ft, at present site, from National Weather Service discharge, 92,300 ft^3/s, from rating curve extended above 55,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.–Peak discharge greater than base discharge of 13,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 13	2200	*14,100	*14.11	No other peak greater than base discharge.			

Minimum discharge, 780 ft^3/s, Oct. 20, 21.

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	813	904	3000	1660	1560	2240	3160	1950	1160	3120	1970	1770
2	802	1050	2790	3510	1580	2450	3000	2320	1140	2630	1830	2220
3	981	1130	2470	3730	1520	3240	2680	3250	1140	2350	1730	2350
4	1650	1100	2000	3080	1470	4730	2430	4200	1100	3210	1650	1910
5	2210	1180	1690	2640	1440	5190	2530	4190	1090	5910	1600	1620
6	2410	1450	1540	2450	1420	4390	4770	4100	1110	7400	1550	1470
7	2420	1770	1450	2360	1510	4600	6730	3480	1210	8790	1470	1330
8	2040	1710	1390	2260	1680	5610	7870	2610	1600	10300	1390	1240
9	1570	1730	1350	2160	1720	4630	9460	2180	2210	10200	1320	1190
10	1260	1740	1330	2180	1670	3440	11200	2010	2400	8700	1270	1130
11	1100	1630	1330	2120	1600	2920	12100	2320	2350	5620	1230	1090
12	1010	1440	1370	1950	1550	2600	12800	3360	1950	4310	1200	1060
13	944	1330	1380	1810	1490	2400	13900	3330	1620	3910	1170	1030
14	895	1250	1360	1750	1420	2250	13800	2880	1420	3870	1150	1040
15	857	1200	1320	1810	1370	2130	12000	2570	1320	3660	1150	1100
16	833	1160	1310	2090	1350	2040	9280	2210	1400	3840	1170	1080
17	818	1220	1350	2320	1330	1960	7850	1940	1810	5580	1230	1040
18	806	1290	1370	2310	1310	1970	7680	1830	3220	6670	1420	1020
19	791	1290	1350	2060	1300	1980	6700	1770	4190	7070	1990	993
20	782	1290	1310	1880	1320	1880	4870	1710	4070	6510	2030	968
21	789	1280	1270	1770	1700	1830	3800	1630	4070	5570	1640	944
22	809	1300	1240	1690	2570	1970	3300	1570	4800	5890	1430	931
23	840	1360	1220	1620	4190	2770	3010	1530	5740	6250	1340	919
24	849	1340	1220	1550	4540	4680	2760	1510	6350	6470	1270	899
25	862	1280	1270	1490	3920	6320	2550	1580	6850	6800	1210	902
26	881	1240	1290	1450	3350	7070	2360	1730	7160	6760	1150	956
27	906	1210	1270	1420	2750	7150	2200	1610	6050	5080	1110	1100
28	884	1270	1240	1400	2300	6180	2070	1480	3170	3440	1090	1470
29	871	1890	1220	1380	—	4430	1950	1380	3010	2910	1070	1930
30	847	2910	1220	1380	—	3330	1870	1280	2930	2510	1030	2270
31	846	—	1260	1460	—	3070	—	1210	—	2170	1260	—
TOTAL	34376	41944	46180	62740	54930	111450	180680	70720	87640	167500	43120	38972
MEAN	1109	1398	1490	2024	1962	3595	6023	2281	2921	5403	1391	1299
MAX	2420	2910	3000	3730	4540	7150	13900	4200	7160	10300	2030	2350
MIN	782	904	1220	1380	1300	1830	1870	1210	1090	2170	1030	899
CFSM	.38	.48	.51	.70	.68	1.24	2.08	.79	1.01	1.86	.48	.45
IN.	.44	.54	.59	.80	.70	1.43	2.32	.91	1.12	2.15	.55	.50

CAL YR 1988 TOTAL 662776 MEAN 1811 MAX 9230 MIN 545 CFSM .62 IN 8.50
WTR YR 1989 TOTAL 940252 MEAN 2576 MAX 13900 MIN 782 CFSM .89 IN 12.06

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.00	1.13	4.86	2.69	2.52	3.72	5.09	3.24	1.72	5.02	3.26	2.92
2	.97	1.46	4.56	5.54	2.57	4.04	4.86	3.85	1.68	4.32	3.04	3.69
3	1.36	1.65	4.07	5.83	2.46	5.19	4.40	5.19	1.67	3.89	2.85	3.89
4	2.70	1.59	3.31	4.97	2.37	7.04	4.03	6.42	1.59	5.11	2.71	3.16
5	3.62	1.76	2.78	4.34	2.29	7.55	4.16	6.42	1.56	8.31	2.62	2.65
6	3.90	2.31	2.50	4.05	2.26	6.65	7.05	6.30	1.60	9.76	2.51	2.36
7	3.99	2.92	2.32	3.91	2.43	6.89	9.12	5.51	1.82	11.02	2.35	2.09
8	3.39	2.82	2.20	3.75	2.76	8.01	10.20	4.30	2.60	12.17	2.20	1.89
9	2.54	2.85	2.12	3.59	2.83	6.90	11.56	3.62	3.67	12.13	2.06	1.77
10	1.94	2.86	2.07	3.63	2.73	5.42	12.70	3.35	3.97	10.93	1.96	1.66
11	1.59	2.66	2.08	3.52	2.61	4.69	13.13	3.84	3.89	7.99	1.87	1.57
12	1.38	2.31	2.16	3.23	2.51	4.21	13.49	5.36	3.23	6.56	1.81	1.49
13	1.22	2.07	2.18	2.99	2.39	3.87	13.98	5.31	2.65	6.06	1.75	1.42
14	1.10	1.90	2.13	2.88	2.25	3.62	13.96	4.68	2.26	6.02	1.70	1.45
15	1.01	1.79	2.05	2.99	2.17	3.41	13.07	4.24	2.06	5.75	1.70	1.58
16	.95	1.72	2.04	3.46	2.12	3.24	11.40	3.68	2.22	5.97	1.74	1.55
17	.91	1.84	2.11	3.84	2.08	3.09	10.19	3.22	2.98	7.96	1.87	1.44
18	.88	1.98	2.16	3.83	2.03	3.10	10.03	3.04	5.14	9.07	2.25	1.40
19	.84	1.99	2.12	3.42	2.01	3.11	9.09	2.92	6.41	9.46	3.31	1.34
20	.82	1.99	2.03	3.11	2.06	2.95	7.19	2.82	6.27	8.91	3.38	1.28
21	.83	1.97	1.95	2.92	2.78	2.86	5.93	2.67	6.27	7.97	2.67	1.22
22	.89	2.01	1.89	2.77	4.22	3.14	5.28	2.56	7.12	8.30	2.28	1.19
23	.97	2.13	1.86	2.64	6.40	4.42	4.88	2.47	8.15	8.66	2.09	1.16
24	.99	2.11	1.85	2.51	6.83	6.90	4.52	2.43	8.75	8.87	1.96	1.11
25	1.02	1.98	1.95	2.40	6.07	8.69	4.20	2.58	9.25	9.20	1.82	1.12
26	1.07	1.89	2.00	2.32	5.34	9.45	3.91	2.85	9.54	9.16	1.70	1.25
27	1.13	1.82	1.95	2.25	4.49	9.53	3.66	2.62	8.43	7.41	1.60	1.59
28	1.07	1.94	1.88	2.22	3.82	8.58	3.44	2.38	5.07	5.46	1.55	2.34
29	1.04	3.11	1.84	2.18	—	6.68	3.24	2.18	4.88	4.73	1.51	3.20
30	.98	4.73	1.85	2.19	—	5.31	3.10	1.98	4.76	4.15	1.43	3.77
31	.98	—	1.94	2.34	—	4.96	—	1.83	—	3.60	1.91	—
MEAN	1.52	2.18	2.35	3.30	3.12	5.39	7.70	3.67	4.37	7.55	2.18	1.95
MAX	3.99	4.73	4.86	5.83	6.83	9.53	13.98	6.42	9.54	12.17	3.38	3.89
MIN	.82	1.13	1.84	2.18	2.01	2.86	3.10	1.83	1.56	3.60	1.43	1.11

CAL YR 1988	MEAN	2.71	MAX	11.39	MIN	.24
WTR YR 1989	MEAN	3.78	MAX	13.98	MIN	.82

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to July 1974, August 1976 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 18...	1045	808	62	62	6.90	7.20	17.5	26.0	9.9	105
NOV 15...	1220	1190	65	67	7.20	7.00	16.0	23.0	10.4	107
DEC 19...	1225	1350	58	62	7.20	7.00	8.0	14.5	12.8	108
JAN 17...	1210	2330	57	--	7.30	7.00	11.0	14.5	11.8	108
FEB 14...	1200	1420	57	57	7.00	7.00	12.5	18.0	12.0	113
MAR 21...	1530	1830	54	--	7.20	6.80	19.0	21.0	8.1	89
APR 18...	1045	7720	43	38	6.90	6.60	17.0	27.0	7.9	83
MAY 16...	1110	2230	53	--	7.20	7.00	20.5	27.5	8.1	91
JUN 20...	1225	4030	48	49	7.10	6.80	24.5	30.0	6.9	84
JUL 18...	1100	6660	46	44	6.80	6.80	25.5	30.0	6.1	76
AUG 22...	1130	1430	58	59	7.10	7.10	28.0	31.0	7.3	95
SEP 19...	1030	998	59	--	7.30	7.10	23.5	25.0	7.5	90

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 18...	--	7.0	--	0.7	40	13	6
NOV 15...	50	7.0	--	0.3	--	16	10
DEC 19...	35	6.0	--	1.5	--	12	10
JAN 17...	45	17	--	0.6	80	14	20
FEB 14...	40	9.0	--	0.5	<20	14	9
MAR 21...	45	13	--	0.9	--	15	9
APR 18...	50	45	--	0.6	--	9	33
MAY 16...	60	22	--	0.2	<20	16	26
JUN 20...	80	56	--	0.7	260	14	63
JUL 18...	140	78	--	0.5	330	12	60
AUG 22...	40	16	19	0.6	80	15	14
SEP 19...	48	9.0	10	1.1	50	20	5

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
18...	0.300	0.030	--	--	--	0.070	2.3
NOV							
15...	0.250	<0.030	--	--	--	0.120	4.4
DEC							
19...	0.500	<0.030	--	--	--	0.150	4.3
JAN							
17...	0.330	<0.030	--	--	--	<0.020	5.2
FEB							
14...	0.250	0.090	--	--	--	0.330	3.8
MAR							
21...	0.560	<0.030	--	--	--	0.100	4.6
APR							
18...	0.200	<0.030	--	--	--	0.160	6.5
MAY							
16...	0.440	<0.030	--	--	--	0.170	4.6
JUN							
20...	0.250	<0.030	--	--	--	0.140	6.4
JUL							
18...	0.210	0.030	--	--	--	0.100	18
AUG							
22...	0.250	0.080	0.12	0.20	0.45	0.080	3.5
SEP							
19...	0.260	<0.030	--	0.90	1.2	0.140	--

02349900 TURKEY CREEK AT BYROMVILLE, GA.

LOCATION.--Lat 32°11'44", long 83°54'03", Dooly County, Hydrologic Unit 03130006, on downstream side of bridge on State Highway 90, 0.5 mi southwest of Byromville, and 11 mi upstream from mouth.
DRAINAGE AREA.--45 mi^2, approximately.
PERIOD OF RECORD.--Water years 1951-58 (annual maximum), June 1958 to current year.
GAGE.--Water-stage recorder. Elevation of gage is 286 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Prior to June 19, 1958, crest-stage gage at site 50 ft upstream at same datum.
REMARKS.--No estimated daily discharges. Records fair.
AVERAGE DISCHARGE.--31 years, 45.0 ft^3/s, 13.58 in/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,820 ft^3/s, Apr. 1, 1981, gage height, 13.82 ft; minimum discharge, 0.1 ft^3/s, July 28, 1968.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 9	1200	410	9.39	July 4	2300	*717	*10.25
June 29	1600	626	10.03				

Minimum discharge, 2.7 ft^3/s, Oct. 17-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	4.2	3.5	7.2	5.3	14	14	25	6.6	185	12	6.5
2	4.6	4.0	3.2	6.3	5.4	13	11	76	5.7	98	10	5.4
3	12	3.8	3.3	5.7	5.3	34	9.6	37	4.4	92	9.7	4.8
4	8.2	4.0	3.2	5.3	5.2	30	8.9	21	4.1	395	9.0	4.7
5	5.1	7.3	3.1	5.2	5.3	22	16	15	3.9	505	8.0	4.3
6	4.3	5.3	3.1	4.9	5.7	19	17	11	20	301	7.2	4.5
7	3.7	3.9	3.2	4.9	5.6	16	12	8.8	46	169	6.2	4.4
8	3.6	3.8	3.1	4.9	5.6	14	10	7.5	13	111	7.2	4.4
9	3.4	3.9	3.3	5.6	5.1	12	30	6.8	255	75	6.0	4.1
10	3.3	3.9	3.5	8.7	4.8	12	101	7.8	253	58	6.1	3.9
11	3.3	3.9	3.9	6.8	4.7	11	205	8.0	72	46	6.0	3.8
12	3.4	3.6	4.6	6.2	4.7	10	145	6.8	34	52	5.7	3.6
13	3.3	3.7	3.9	5.8	4.7	9.5	81	6.1	22	95	5.4	3.6
14	3.3	4.0	3.7	5.2	4.8	9.0	60	5.7	16	48	5.9	3.5
15	3.1	4.0	3.7	5.3	4.8	8.8	52	5.5	17	105	6.9	3.5
16	3.0	4.1	4.6	5.8	4.7	8.6	49	5.0	52	123	6.8	3.5
17	2.9	4.4	5.0	4.9	4.7	8.2	39	4.7	93	83	5.9	3.5
18	2.8	4.0	4.0	4.7	4.5	8.1	32	4.3	64	56	5.6	3.3
19	2.8	3.8	3.6	4.5	4.7	8.8	25	4.2	45	43	5.6	3.4
20	3.1	4.4	3.7	4.6	4.7	7.7	22	4.3	104	44	5.2	3.5
21	3.5	4.7	3.7	4.9	25	8.0	20	5.1	113	49	4.7	3.6
22	3.6	4.0	3.8	4.5	28	9.7	18	4.8	80	59	4.6	3.6
23	3.5	4.0	3.8	4.4	15	33	16	4.9	164	51	4.4	3.6
24	3.5	4.1	3.8	4.3	11	39	13	4.9	117	71	4.3	3.4
25	3.2	3.8	5.3	4.4	9.2	24	12	4.4	65	52	4.1	3.9
26	3.1	3.9	4.7	4.3	8.2	18	12	4.2	40	38	4.0	6.6
27	3.5	4.1	4.3	4.4	7.9	15	12	4.0	29	28	4.9	5.9
28	3.4	4.6	4.5	4.4	12	13	8.8	3.9	24	23	4.2	4.9
29	3.4	4.0	5.1	4.4	—	12	7.4	3.7	317	19	4.4	5.7
30	3.5	3.7	4.6	5.1	—	16	6.6	3.6	276	16	4.2	5.8
31	3.7	—	6.0	6.4	—	19	—	3.4	—	14	4.8	—
TOTAL	120.5	124.9	122.8	164.0	216.6	482.4	1065.3	317.4	2355.7	3104	189.0	129.2
MEAN	3.89	4.16	3.96	5.29	7.74	15.6	35.5	10.2	78.5	100	6.10	4.31
MAX	12	7.3	6.0	8.7	28	39	205	76	317	505	12	6.6
MIN	2.8	3.6	3.1	4.3	4.5	7.7	6.6	3.4	3.9	14	4.0	3.3
CFSM	.09	.09	.09	.12	.17	.35	.79	.23	1.74	2.22	.14	.10
IN.	.10	.10	.10	.14	.18	.40	.88	.26	1.95	2.57	.16	.11

CAL YR 1988	TOTAL	3449.2	MEAN	9.42	MAX	55	MIN	2.1	CFSM	.21	IN	2.85
WTR YR 1989	TOTAL	8391.8	MEAN	23.0	MAX	505	MIN	2.8	CFSM	.51	IN	6.94

02350001 FLINT RIVER NEAR VIENNA, GA.

LOCATION.--Lat 32°03'38", long 83°58'36", Dooly County, Hydrologic Unit 03100206, at bridge on State Route 27, 0.2 mi downstream of Turkey Creek, 12 mi west of Vienna, and at mile 154.1.

DRAINAGE AREA.--3,390 mi^2.

PERIOD OF RECORD.--July 1979 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Records of discharge for the water years 1927-30 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
18...	1000	97	98	6.90	7.20	17.5	23.5	8.8	93
NOV									
15...	1100	118	119	7.20	7.20	16.5	22.5	9.1	94
DEC									
19...	1145	118	119	7.10	7.10	8.0	14.0	12.2	103
JAN									
17...	1105	103	--	7.20	7.00	11.5	10.5	10.3	95
FEB									
14...	1040	108	106	7.00	7.00	12.0	17.0	11.7	109
MAR									
21...	1430	88	87	7.20	6.90	19.0	20.0	7.3	80
APR									
18...	0945	53	53	6.90	6.70	17.0	24.0	7.4	78
MAY									
16...	1015	76	76	7.10	7.10	20.5	25.0	7.7	87
JUN									
20...	1125	60	60	6.90	7.00	24.5	29.5	6.6	81
JUL									
18...	1005	58	58	6.70	6.90	25.5	30.0	6.1	76
AUG									
22...	1040	91	89	7.10	7.10	28.0	31.0	7.0	91
SEP									
19...	0950	97	97	7.20	7.10	22.5	22.0	6.7	79

02350001 FLINT RIVER NEAR VIENNA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	40	11	0.4	50	16	0.350	0.050	0.080	3.9
NOV 15...	60	12	0.6	--	22	0.350	0.040	0.150	6
DEC 19...	40	8.0	2.2	--	18	0.770	0.120	0.130	4.9
JAN 17...	60	14	1.0	20	18	0.460	0.040	0.070	12
FEB 14...	70	12	1.2	30	20	0.430	0.030	0.330	7.0
MAR 21...	65	14	0.9	--	17	0.350	0.030	0.080	5.1
APR 18...	50	60	1.1	--	11	0.260	<0.030	0.130	7.3
MAY 16...	70	21	0.6	50	17	0.320	<0.030	0.170	6.0
JUN 20...	80	48	0.5	110	16	0.300	<0.030	0.190	6.5
JUL 18...	160	80	0.8	490	14	0.180	0.040	0.080	9.5
AUG 22...	40	11	0.5	40	21	0.410	0.110	0.080	5.2
SEP 19...	40	12	0.8	20	21	0.350	0.040	0.150	--

02350512 FLINT RIVER AT STATE HIGHWAY 32 NEAR OAKFIELD, GA.

LOCATION.–Lat 31°43'30", long 84°01'07", Worth-Lee County line. Hydrologic Unit 03130006, on downstream end of pier of bridge on State Highway 32, 5 mi southwest of Oakfield, 3.2 mi downstream from Jones Creek, 13.9 mi downstream from Crisp County damsite, and at rivermile 120.8.

DRAINAGE AREA.–3,880 mi^2, approximately.

PERIOD OF RECORD.–October 1929 to December 1958, May 1987 to current year. Monthly discharge only, October 1929 to January 1930 and June 1933 to October 1934 (published in WSP 1304). Prior to May 1987, published as "at Oakfield" (station 02350500).

GAGE.–Water-stage recorder. Elevation of gage is 190 ft above National Geodetic Vertical Datum of 1929 (from topographic map). January 9, 1930 to June 23, 1933 and October 1, 1934 to December 31, 1958, recording gage at site 4.2 mi upstream at datum 193.29 ft above National Geodetic Vertical Datum of 1929, supplementary adjustment of 1936.

REMARKS.–No estimated daily discharges. Records good. Flow regulated by powerplant at Warwick Reservoir since 1930, capacity about 35,000 acre-ft. Normal operation of powerplant does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.–31 years (water years 1930-58, 1988-89), 4,302 ft^3/s, 15.06 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 60,500 ft^3/s, Dec. 3, 1948, gage height, 30.1 ft; minimum daily discharge, 152 ft^3/s, June 8, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known since at least 1898, 35.1 ft, Jan. 20, 1925, from floodmarks, 90,000 ft^3/s. Flood in March,1929 reached a stage of 34.0 ft, from floodmarks, 85,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, 15,700 ft^3/s, Apr. 14, gage height, 13.12 ft; minimum daily discharge, 741 ft^3/s, Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3460	1280	1490	2070	1300	3220	3220	3870	1410	6560	2600	2060
2	3180	1110	1080	4060	2140	4540	4060	3630	994	4900	2030	2830
3	2930	1260	970	5770	2180	4930	3840	4970	937	4510	2730	3520
4	3780	1330	976	5960	1270	3540	3480	2650	945	3850	2540	1880
5	4530	2270	1090	5030	2120	6140	4680	4710	1350	7470	1840	2510
6	2870	1300	963	1450	2370	6200	6360	5580	1340	8900	1490	2850
7	2810	2520	965	1030	2140	6330	4680	5040	2430	11500	2310	1310
8	2860	3630	961	1050	4140	6470	7360	4290	3370	8370	1690	976
9	1840	2720	1030	3260	2420	5940	7640	2230	5680	12000	1350	1000
10	1780	1630	1870	2590	2780	3900	10300	4170	6880	11200	1450	991
11	1430	2610	1900	3690	1520	3060	14900	1550	6880	10800	2020	1110
12	1240	2020	3310	2570	980	3080	13700	2620	3590	7390	1380	995
13	940	1760	3710	2040	1110	3680	13700	4070	3420	5110	1380	1310
14	1280	1760	2260	1530	1350	2560	15200	3830	2690	5880	1970	1020
15	823	1750	1150	2600	1610	3470	14600	3570	1990	4930	1160	1330
16	846	1420	1200	2790	1680	2650	14000	2700	2210	5920	1430	1610
17	1490	1650	1340	4050	2090	1640	9770	3130	4310	4830	2020	2110
18	1220	1600	1300	2710	2330	2740	10100	1660	3240	7450	1530	1240
19	912	885	1980	2320	1780	2250	8620	1940	6470	7630	1180	981
20	896	891	1740	2350	1290	2700	8360	2610	7180	7670	2920	1010
21	895	1610	1410	3130	2760	1750	6700	1730	6640	7650	2560	741
22	1100	1780	1420	2170	5370	3490	4680	2250	7490	7420	2660	1050
23	928	1920	1280	2510	4260	4640	4250	1840	7710	7380	2040	846
24	1550	1780	1060	2090	5850	4910	3210	2470	7690	7730	1080	842
25	1090	1780	1250	2150	2500	5970	3950	2260	7680	8460	1050	1110
26	899	1560	1670	1370	3540	7500	3680	1950	7610	8290	1110	2600
27	1160	894	2940	1240	4300	7500	3070	1890	7420	7690	1100	1290
28	1700	2070	2470	2230	3490	7810	1320	1290	6910	7030	1410	1120
29	909	2080	2650	1490	—	6450	2820	1050	3750	3390	1200	1780
30	1120	2350	1900	2070	—	5470	2330	1520	5070	3910	2230	2910
31	966	—	1190	2480	—	3940	—	1570	—	4360	1770	—
TOTAL	53434	53220	50525	81850	70670	138470	214580	88640	135286	220180	55230	46932
MEAN	1724	1774	1630	2640	2524	4467	7153	2859	4510	7103	1782	1564
MAX	4530	3630	3710	5960	5850	7810	15200	5580	7710	12000	2920	3520
MIN	823	885	961	1030	980	1640	1320	1050	937	3390	1050	741
CFSM	.44	.46	.42	.68	.65	1.15	1.84	.74	1.16	1.83	.46	.40
IN.	.51	.51	.48	.78	.68	1.33	2.06	.85	1.30	2.11	.53	.45

CAL YR 1988 TOTAL 948670 MEAN 2592 MAX 11100 MIN 588 CFSM .67 IN 9.10
WTR YR 1989 TOTAL 1209017 MEAN 3312 MAX 15200 MIN 741 CFSM .85 IN 11.59

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.

LOCATION.--Lat 32°03'09", long 84°32'54", Webster County, Hydrologic Unit 03130007, at bridge on State Highway 41, 1 mi southwest of Preston, and 1 mi upstream from Harrel Mill Creek.
DRAINAGE AREA.--197 mi^2.
PERIOD OF RECORD.--December 1969 to September 1970, November 1971 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Water-discharge records for the water years 1951-77 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH (STANDARD UNITS)	PH LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR									
13...	1230	122	34	36	6.77	7.10	14.5	9.0	89
JUL									
11...	1200	266	36	38	6.54	7.10	24.0	6.5	77

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY WAT.DIS FET LAB CACO3 (MG/L)
MAR										
13...	100	9.3	12	3.6	0.68	1.9	25	0.2	0.70	8.0
JUL										
11...	--	18	13	4.1	0.63	1.4	18	0.2	0.60	10

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
MAR											
13...	3.4	0.10	6.3	21	--	--	--	<0.100	<0.100	<0.010	0.010
JUL											
11...	3.0	0.10	6.8	39	--	--	--	<0.100	<0.100	0.060	0.060

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN DISSOLVED (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)
MAR												
13...	--	0.29	0.50	0.30	--	--	0.020	<0.010	5.9	<10	<1	<1
JUL												
11...	0.54	0.44	0.60	0.50	--	--	0.040	<0.010	11	70	1	1

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)
MAR											
13...	<1	1	<1	290	<5	<5	160	<0.10	<0.1	<1	5
JUL											
11...	<1	1	3	860	2	1	120	<0.10	0.1	<1	13

02350900 KINCHAFOONEE CREEK NEAR DAWSON, GA.

LOCATION.–Lat 31°45'52", long 84°15'12", Lee County, Hydrologic Unit 03130007, at bridge on Prison Farm Road, 3.6 mi west of U.S. Highway 19, and 5.2 mi northwest of Leesburg.

DRAINAGE AREA.–527 mi^2, approximately.

PERIOD OF RECORD.–Water years 1949-65 (annual maximum), March 1985 to current year.

GAGE.–Water-stage recorder. Datum of gage is 211.74 ft above National Geodetic Vertical Datum of 1929 (Georgia State Highway Commission benchmark). April 6, 1949 to September 30, 1965, crest-stage gage at site 1,500 ft upstream at same datum.

REMARKS.–Estimated daily discharges: Oct. 8-11, Nov. 11-15, and Jan. 27 to Feb. 1. Records good, except for periods of estimated discharge, which are fair.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 7,800 ft^3/s, Apr. 6, 1960, gage height, 19.45 ft, minimum daily discharge, 39 ft^3/s, July 15, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.–Flood in 1943 or 1944 is believed to have reached an elevation of about 23 ft from information by local resident. Maximum stage of 20.46 was reached March 5, 1966.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 7	1200	*1,610	*9.61	No other peaks greater than base discharge.			

Minimum discharge, 95 ft^3/s, Sept. 21, gage height, 2.81 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	137	205	264	270	399	512	291	108	279	316	184
2	105	138	195	322	293	547	498	609	101	471	275	275
3	132	144	186	347	278	712	442	706	99	656	246	287
4	420	170	180	327	256	797	352	659	101	876	227	229
5	669	182	177	284	246	817	358	594	101	1150	215	193
6	586	209	176	252	234	782	500	389	100	1450	200	166
7	401	293	176	235	239	749	603	286	142	1580	184	150
8	260	318	176	229	243	678	604	243	198	1300	170	142
9	210	274	179	233	242	578	609	217	563	932	163	138
10	180	221	183	282	228	500	721	219	933	724	160	135
11	160	180	188	394	216	427	1130	256	879	532	155	130
12	155	170	209	415	210	386	1290	300	573	448	148	125
13	144	160	227	361	200	360	1350	275	334	574	144	120
14	139	180	228	314	195	340	1470	231	242	577	142	114
15	135	190	222	292	195	321	1430	206	217	694	141	110
16	131	174	212	296	194	304	1160	192	438	879	142	107
17	129	174	215	304	190	297	771	181	802	990	159	107
18	128	181	234	294	189	293	618	169	1020	1210	160	107
19	127	227	241	273	189	283	543	159	1250	1310	147	100
20	125	242	229	252	201	271	446	152	1110	1180	139	98
21	124	231	215	244	275	264	433	151	944	873	135	97
22	126	231	208	246	615	289	460	149	728	726	128	103
23	131	238	206	242	735	426	379	148	553	790	122	113
24	134	233	206	233	776	636	320	151	454	806	119	122
25	134	216	207	225	750	732	283	163	336	961	115	123
26	130	206	213	219	600	757	257	163	317	1010	113	134
27	125	206	226	220	426	736	236	151	257	841	109	177
28	123	204	230	230	372	641	218	141	206	524	112	215
29	123	219	229	240	—	468	203	133	355	399	158	209
30	125	210	228	250	—	411	213	123	320	342	171	206
31	131	—	231	260	—	472	—	115	—	348	173	—
TOTAL	5844	6158	6437	8579	9057	15673	18409	7922	13781	25432	5088	4516
MEAN	189	205	208	277	323	506	614	256	459	820	164	151
MAX	669	318	241	415	776	817	1470	706	1250	1580	316	287
MIN	102	137	176	219	189	264	203	115	99	279	109	97
CFSM	.36	.39	.40	.53	.61	.96	1.17	.49	.87	1.56	.31	.29
IN.	.41	.43	.45	.61	.64	1.11	1.30	.56	.97	1.80	.36	.32

CAL YR 1988	TOTAL	107697	MEAN	294	MAX	1270	MIN	53	CFSM	.56	IN	7.60
WTR YR 1989	TOTAL	126896	MEAN	348	MAX	1580	MIN	97	CFSM	.66	IN	8.96

02351890 MUCKALEE CREEK AT STATE HIGHWAY 195, NEAR LEESBURG, GA.

LOCATION.–Lat 31°46'34", long 84°08'22", Lee County, Hydrologic Unit 03130007, at bridge on State Highway 195, 75 ft downstream from White Oak Branch, 3.3 mi downstream from Muckaloochee Creek, and 4.0 mi northeast of Leesburg.

DRAINAGE AREA.–362 mi^2.

PERIOD OF RECORD.–December 1979 to current year.

REVISED RECORDS.–WRD GA-82-1: 1980(P), 1981(P).

GAGE.–Water-stage recorder. Elevation of gage is 220 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.–Estimated daily discharges: Feb. 7-14. Records good, except those for the period of estimated daily discharges, which are fair. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

AVERAGE DISCHARGE.–9 years (water years 1981-89), 330 ft^3/s, 12.38 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 6,290 ft^3/s, Feb. 7, 1985, gage height, 13.91 ft; minimum discharge, 12 ft^3/s, July 20, 1986.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 7	0700	*1,710	*10.90	No other peak greater than base discharge.			

Minimum discharge, 38 ft^3/s June 5, gage height, 2.57 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	97	151	168	170	209	225	193	48	310	339	101
2	67	103	142	184	173	237	235	347	43	496	337	173
3	79	105	137	207	168	374	218	396	42	723	263	212
4	142	106	133	220	156	466	185	437	41	879	215	240
5	215	120	130	217	148	480	208	430	39	940	176	223
6	302	138	128	204	145	499	229	350	45	1520	155	164
7	421	161	128	193	150	498	239	199	54	1680	135	135
8	393	183	128	185	160	432	259	161	90	1390	119	122
9	190	195	127	184	150	313	293	144	306	921	113	115
10	135	175	129	196	140	273	383	174	567	603	107	109
11	119	135	137	210	130	242	532	198	590	478	104	105
12	111	123	149	234	120	213	735	182	687	365	104	97
13	105	119	154	243	110	198	955	167	612	359	100	87
14	99	130	159	222	110	188	917	145	288	526	100	79
15	94	148	157	195	109	180	854	130	156	764	106	73
16	91	135	152	194	113	172	715	121	213	923	111	72
17	89	129	150	195	115	168	508	113	382	810	102	71
18	88	127	153	191	116	163	409	103	542	851	104	70
19	88	134	162	187	116	159	329	94	605	788	98	67
20	86	156	159	180	121	154	272	87	705	750	95	66
21	89	171	150	169	171	155	263	88	609	564	89	70
22	89	167	144	163	304	165	262	93	408	495	88	75
23	90	172	143	158	344	221	232	100	307	829	86	78
24	92	172	146	154	406	317	209	102	290	941	86	81
25	93	163	147	150	455	360	189	101	262	813	80	92
26	92	153	145	147	470	406	197	96	203	679	72	108
27	89	148	148	139	393	412	190	86	167	592	75	129
28	87	144	151	140	219	369	166	78	138	486	107	163
29	87	141	154	148	—	261	134	67	186	333	118	184
30	88	150	152	146	—	214	128	59	221	257	109	177
31	91	—	154	162	—	217	—	55	—	260	99	—
TOTAL	3969	4300	4499	5685	5482	8715	10670	5096	8846	22325	3992	3538
MEAN	128	143	145	183	196	281	356	164	295	720	129	118
MAX	421	195	162	243	470	499	955	437	705	1680	339	240
MIN	67	97	127	139	109	154	128	55	39	257	72	66
CFSM	.35	.40	.40	.51	.54	.78	.98	.45	.82	1.99	.36	.33
IN.	.41	.44	.46	.58	.56	.90	1.10	.52	.91	2.29	.41	.36

CAL YR 1988	TOTAL	76718	MEAN	210	MAX	941	MIN	37	CFSM	.58	IN	7.88
WTR YR 1989	TOTAL	87117	MEAN	239	MAX	1680	MIN	39	CFSM	.66	IN	8.95

02352500 FLINT RIVER AT ALBANY, GA.

LOCATION.–Lat 31°35'39", long 84°08'39", Dougherty County, Hydrologic Unit 03130008, on right bank at downstream side of Georgia Northern Railway bridge in Albany, and at mile 103.4.

DRAINAGE AREA.–5,310 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–February 1897 to September 1901 (gage heights only), October 1901 to June 1921, October 1929 to current year. Gage-height records collected at site 1 mi downstream since 1893 are contained in reports of National Weather Service.

REVISED RECORDS.–WSP 1504: 1902, 1913(M), 1916-17, 1919-21, 1930(m), 1934(m), drainage area.

GAGE.–Water-stage recorder. Datum of gage is 150.03 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1902, nonrecording gage at site 1 mi downstream at datum 1.3 ft lower. Jan. 1, 1902 to June 30, 1921, nonrecording gage at site 1 mi downstream at datum 2.0 ft lower.

REMARKS.–No estimated daily discharges. Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft; and at Warwick Reservoir since 1930, capacity about 35,000 acre-ft. Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.–79 years (water years 1902-20, 1930-89), 6,176 ft^3/s, 15.79 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 77,000 ft^3/s, Mar. 7, 1966, gage height, 34.72 ft; minimum daily, 327 ft^3/s, regulated Aug. 24, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage since at least 1893, 37.84 ft Jan. 21, 1925, from floodmark, present site and datum, discharge, 92,000 ft^3/s, from rating curve extended above 75,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 20,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 7	1130	*19,500	*14.67

Minimum daily discharge, 855 ft^3/s, June 3.

02352500 FLINT RIVER AT ALBANY, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2890	1450	2190	2230	2330	4190	4070	4010	2050	7890	3640	2190
2	3860	1460	1410	3560	1890	5190	4720	4660	1700	6320	3100	2650
3	3120	1420	1410	6230	2950	6980	4470	6650	855	7030	3220	5100
4	3690	1590	1380	6140	2480	5680	4400	4070	1210	5140	3270	2290
5	5470	2160	1430	6040	2240	8420	4830	6460	1580	10600	2710	2140
6	3950	1900	1380	2210	2720	7890	7570	5890	1620	11400	2540	3710
7	3490	2130	1340	1610	2590	7840	4500	6360	2690	16400	1700	2290
8	3610	4320	1380	1560	4220	7070	8040	4860	3110	11600	2930	1470
9	2760	2660	1210	2590	3850	5880	8990	2980	7100	15100	1670	1260
10	1760	2800	2140	3700	2870	3540	11400	5200	7590	15600	1880	1250
11	2230	2230	2240	3530	2560	3630	17700	2370	8840	13300	2000	1810
12	1350	2670	2780	3480	1890	4490	16400	3070	5270	8890	2260	1000
13	1710	2080	4290	2660	1350	4810	16100	4460	4820	5420	1470	1600
14	1420	2050	2980	2260	1930	3830	18900	4590	3040	7840	2420	1160
15	1190	2070	1610	2960	1830	3550	18100	4190	3660	6760	1710	1780
16	1160	1880	1620	3150	2260	3850	17100	2760	2890	8020	1640	1760
17	1620	1860	1650	3710	2230	2750	13400	4100	4940	7000	2200	1920
18	1650	1960	1780	4060	2890	3190	11500	2280	4540	10300	2170	1820
19	1180	1360	2200	2640	2620	2690	10100	2560	8690	10100	1730	1140
20	1200	1380	2300	2830	2130	4300	10800	2670	10500	11300	2520	1640
21	1210	1960	1710	2980	2410	2030	7300	2610	9190	9840	2810	953
22	1240	2170	1840	3050	6590	3900	6010	2450	10100	9920	2810	1050
23	1320	2280	1690	4390	4980	5320	5130	2350	9760	9830	3040	1070
24	1620	2170	1610	5030	7970	6610	3960	2120	9380	10700	1370	1100
25	1500	2160	1600	4020	4210	6930	3960	2980	8810	11900	1370	1180
26	1220	2030	1760	2370	5110	9470	4190	2880	8990	10900	1320	2870
27	1240	1400	2650	1730	5500	9060	4540	1930	8490	10200	1390	1990
28	1940	2290	3250	2020	4460	9220	2060	2230	7320	9290	1710	1370
29	1470	2480	3060	2920	—	8180	2680	1330	4290	4890	1730	1820
30	1110	2400	1890	1710	—	5930	3480	1540	7240	4540	2010	3640
31	1170	—	1990	3380	—	4710	—	1900	—	5150	2390	—
TOTAL	64350	62770	61770	100750	91060	171130	256400	108510	170265	293170	68730	57023
MEAN	2076	2092	1993	3250	3252	5520	8547	3500	5676	9457	2217	1901
MAX	5470	4320	4290	6230	7970	9470	18900	6650	10500	16400	3640	5100
MIN	1110	1360	1210	1560	1350	2030	2060	1330	855	4540	1320	953
CFSM	.39	.39	.38	.61	.61	1.04	1.61	.66	1.07	1.78	.42	.36
IN.	.45	.44	.43	.71	.64	1.20	1.80	.76	1.19	2.05	.48	.40

CAL YR 1988 TOTAL 1214609 MEAN 3319 MAX 14200 MIN 606 CFSM .63 IN 8.51
WTR YR 1989 TOTAL 1505928 MEAN 4126 MAX 18900 MIN 855 CFSM .78 IN 10.55

02352500 FLINT RIVER AT ALBANY, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.28	2.92	3.72	3.72	3.86	5.14	5.11	5.04	3.60	7.19	4.64	3.58
2	4.94	2.95	2.89	4.77	3.39	5.72	5.47	5.39	3.20	6.36	4.31	4.12
3	4.49	2.90	2.89	6.30	4.34	6.71	5.33	6.55	2.12	6.75	4.51	5.66
4	4.85	3.11	2.86	6.26	3.97	6.01	5.29	5.08	2.61	5.71	4.37	3.81
5	5.88	3.65	2.90	6.21	3.76	7.46	5.41	6.42	3.08	8.68	4.05	3.54
6	5.03	3.38	2.86	3.69	4.16	7.20	7.02	6.11	3.11	9.14	4.00	4.47
7	4.73	3.61	2.80	3.12	4.05	7.18	5.25	6.38	4.11	12.40	3.17	3.70
8	4.82	5.26	2.84	3.07	5.17	6.75	7.29	5.57	4.40	9.24	4.32	2.78
9	4.18	4.06	2.63	3.88	4.93	6.12	7.76	4.34	6.76	11.46	3.19	2.70
10	3.24	4.19	3.68	4.81	4.26	4.55	9.16	5.72	7.02	11.84	3.42	2.66
11	3.75	3.71	3.77	4.76	4.03	4.81	13.35	3.86	7.68	10.31	3.53	3.23
12	2.81	4.09	4.16	4.69	3.43	5.31	12.42	4.42	5.71	7.74	3.75	2.24
13	3.23	3.62	5.19	4.07	2.81	5.51	12.16	5.31	5.53	5.65	2.96	2.88
14	2.91	3.59	4.33	3.73	3.45	4.96	14.24	5.39	4.28	7.18	3.86	2.51
15	2.62	3.61	3.12	4.35	3.36	4.77	13.62	5.17	4.74	6.60	3.23	3.18
16	2.58	3.41	3.13	4.48	3.77	4.96	12.92	4.14	4.21	7.27	3.16	3.30
17	3.07	3.39	3.17	4.80	3.75	4.10	10.43	5.10	5.56	6.72	3.67	3.42
18	3.16	3.50	3.31	5.03	4.30	4.49	9.21	3.79	5.36	8.49	3.64	3.15
19	2.60	2.83	3.71	4.07	4.09	4.09	8.39	4.02	7.60	8.36	3.23	2.40
20	2.63	2.87	3.79	4.21	3.66	5.23	8.76	4.14	8.61	9.05	3.96	3.08
21	2.64	3.46	3.23	4.38	3.84	3.45	6.87	4.08	7.88	8.23	4.12	2.17
22	2.68	3.71	3.38	4.38	6.51	5.01	6.19	3.95	8.38	8.25	4.08	2.29
23	2.78	3.82	3.21	5.26	5.60	5.80	5.71	3.86	8.16	8.20	4.23	2.44
24	3.12	3.71	3.13	5.65	7.25	6.52	5.05	3.65	7.94	8.73	2.75	2.49
25	2.98	3.70	3.12	5.07	5.16	6.70	5.04	4.37	7.66	9.38	2.76	2.53
26	2.66	3.56	3.28	3.83	5.70	8.03	5.09	4.24	7.76	8.79	2.79	4.03
27	2.68	2.88	4.06	3.25	5.91	7.81	5.31	3.47	7.51	8.43	2.87	3.36
28	3.39	3.79	4.56	3.54	5.29	7.90	3.54	3.74	6.90	7.95	3.10	2.77
29	2.92	3.97	4.42	4.33	—	7.34	4.11	2.78	5.06	5.52	3.16	3.29
30	2.50	3.82	3.37	3.22	—	5.98	4.56	3.05	6.86	5.38	3.34	4.74
31	2.59	—	3.46	4.66	—	5.38	—	3.36	—	5.69	3.83	—
MEAN	3.44	3.57	3.45	4.44	4.42	5.84	7.67	4.60	5.78	8.09	3.61	3.22
MAX	5.88	5.26	5.19	6.30	7.25	8.03	14.24	6.55	8.61	12.40	4.64	5.66
MIN	2.50	2.83	2.63	3.07	2.81	3.45	3.54	2.78	2.12	5.38	2.75	2.17

CAL YR 1988 MEAN 4.23 MAX 10.84 MIN 1.65
WTR YR 1989 MEAN 4.84 MAX 14.24 MIN 2.12

02352500 FLINT RIVER AT ALBANY, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
DEC 19...	1040	3150	110	113	7.20	7.40	9.5	9.0	11.5	101
MAR 21...	1210	831	122	120	7.40	7.60	18.0	16.0	8.0	86
JUN 20...	1020	13000	92	91	7.20	7.00	25.0	30.0	7.6	93
SEP 19...	0845	774	124	--	7.80	--	26.5	22.0	6.9	87

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 19...	40	8.0	2.4	--	26	0.550	<0.030	0.100	4.0
MAR 21...	90	16	--	--	33	1.34	<0.030	0.190	5.4
JUN 20...	70	30	0.7	490	24	0.310	<0.030	0.150	7.1
SEP 19...	--	--	--	--	--	--	--	--	--

02352790 FLINT RIVER NEAR PUTNEY, GA.

LOCATION.–Lat 31°26'39", long 84°08'16", Dougherty County, Hydrologic Unit 03130008, at Plant Mitchell intake, 2.5 mi south of Putney, and at mile 90.8.

DRAINAGE AREA.–5,340 mi^2, approximately.

PERIOD OF RECORD.–August 1974 to current year.

PERIOD OF DAILY RECORD.–

WATER TEMPERATURES: July 1979 to June 1984.

REMARKS.–Flow regulated by powerplants at Flint River and Warwick Reservoirs (see remarks for station 02352500). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.–

WATER TEMPERATURES: Maximum recorded, 31.0°C July 15-18, 1980, July 26-29, 1981; minimum, 4.5°C Jan. 1-3, 1984.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
DEC										
20...	1450	2080	130	132	7.30	7.80	10.0	21.5	12.3	109
MAR										
22...	1500	3870	107	106	7.40	7.30	18.0	15.5	7.8	83
JUN										
21...	1440	8550	97	96	7.40	7.20	25.0	22.0	7.4	91
SEP										
20...	1355	1400	175	180	7.80	7.70	25.5	25.5	8.4	104

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
DEC							
20...	30	7.0	--	0.5	230	55	5
MAR							
22...	50	15	23	1.1	2800	31	3
JUN							
21...	80	29	23	1.4	490	27	4
SEP							
20...	20	3.0	--	1.2	270	55	<1

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC							
20...	0.650	0.070	--	--	--	0.190	3.9
MAR							
22...	0.520	0.060	0.54	0.60	1.1	0.090	5.8
JUN							
21...	0.370	0.090	0.91	1.0	1.4	0.150	5.6
SEP							
20...	0.690	0.040	--	--	--	0.340	--

02353000 FLINT RIVER AT NEWTON, GA.
(National Stream-Quality Accounting Network station)

LOCATION.--Lat 31°18'34", long 84°20'06", Baker-Mitchell County line, Hydrologic Unit 03130008, on downstream side of pier of bridge on State Highway 37 at Newton, 1 mi downstream from Coolewahee Creek, and at mile 69.5.

DRAINAGE AREA.--5,740 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to September 1950 (monthly discharge only for October 1945 to September 1946, October 1947 to December 1948, published in WSP 1304), October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 110.20 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Nov. 12, 1956, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft; and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft. Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--45 years (water years 1939-50, 1957-89), 6,758 ft^3/s, 15.99 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,600 ft^3/s, Mar. 9, 1966, gage height, 34.9 ft; minimum discharge, 790 ft^3/s, regulated Oct. 20, Nov. 10, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, 41.3 ft Jan. 21, 1925, from floodmark; discharge, 94,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 20,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 15	1200	*17,400	*15.18

Minimum discharge, 1,220 ft^3/s, Sept. 22, gage height, 3.59 ft.

02353000 FLINT RIVER AT NEWTON, GA.–Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2330	1530	2890	2360	3380	4780	5070	3810	2380	7800	6100	2640
2	4170	1820	2330	2910	2470	4880	4750	5130	2400	8030	4440	3120
3	3840	1700	1800	4780	2780	6460	5530	6000	1910	7660	4030	4270
4	3870	1810	1720	5960	3050	6420	4640	6030	1390	6740	4540	4470
5	4980	2000	1670	6080	2530	6760	4600	5780	1680	8460	4420	2910
6	5230	2740	1750	4750	2760	7870	6860	6060	2180	10400	3550	4270
7	4100	2000	1640	2490	3190	7830	5860	7220	2110	13100	3120	3230
8	4330	3340	1580	2090	3170	7820	6840	5960	3180	13000	3330	2450
9	3880	4030	1640	1970	4570	6710	8130	4920	5170	12500	3320	2330
10	3020	3360	1710	3850	3330	5570	8970	4430	7110	14600	2670	1870
11	2630	2730	2440	3610	3380	3920	13300	4820	8290	13300	2740	1940
12	2520	3200	2530	4090	2620	5040	15500	3310	7180	11600	3170	2390
13	2010	2750	4040	3400	2110	4430	14700	4250	5960	8330	2660	1440
14	2040	2530	3860	3110	1750	5270	15700	5450	4940	7910	2830	2330
15	1830	2500	2660	2940	2260	4120	17200	4830	4260	8270	2860	1730
16	1620	2510	2040	3270	2300	4530	16600	4220	3590	8310	2420	2420
17	1600	2220	2000	3450	2470	4140	15000	4010	4360	8710	2750	2280
18	2170	2370	2040	4510	2770	3010	11700	4090	5870	9040	2980	2730
19	1890	2230	2130	3480	3000	3840	11300	3080	6630	10500	2710	1950
20	1580	1760	2600	3350	2680	3840	10600	3110	9460	10500	2450	1750
21	1590	1750	2380	3170	2460	3790	9310	3470	9380	10600	3790	2190
22	1550	2440	2160	3630	4410	3250	7980	3040	9640	10100	3460	1360
23	1660	2640	2080	3640	5510	4680	6340	3110	9860	10200	3590	1590
24	1620	2620	1980	4670	6280	6460	5780	2920	9530	10600	2960	1570
25	2070	2580	1890	4790	6070	6620	4950	3100	9390	11100	2030	1590
26	1720	2570	1860	4030	4890	7900	5390	3680	9100	11200	2150	1890
27	1550	2270	2210	2480	5330	8570	5270	2900	9080	10700	2020	3560
28	1700	1860	3390	2130	5280	8710	3950	2670	8430	10200	1980	2100
29	2340	2840	3320	2860	—	8850	3000	2460	7140	8380	2400	2030
30	1620	2660	2900	2800	—	6640	4490	1850	6730	5610	2280	3340
31	1500	—	2600	2650	—	6690	—	2190	—	6440	3240	—
TOTAL	78560	73360	71840	109300	96800	179400	259310	127900	178330	303890	96990	73740
MEAN	2534	2445	2317	3526	3457	5787	8644	4126	5944	9803	3129	2458
MAX	5230	4030	4040	6080	6280	8850	17200	7220	9860	14600	6100	4470
MIN	1500	1530	1580	1970	1750	3010	3000	1850	1390	5610	1980	1360
CFSM	.44	.43	.40	.61	.60	1.01	1.51	.72	1.04	1.71	.55	.43
IN.	.51	.48	.47	.71	.63	1.16	1.68	.83	1.16	1.97	.63	.48

CAL YR 1988 TOTAL 1417660 MEAN 3873 MAX 12300 MIN 1020 CFSM .68 IN 9.19
WTR YR 1989 TOTAL 1649420 MEAN 4519 MAX 17200 MIN 1360 CFSM .79 IN 10.69

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to June 1979, May 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
NOV												
22...	1300	2520	152	149	7.66	7.60	17.0	8.5	88	58	47	48
JAN												
25...	1330	4410	110	119	7.52	7.70	12.0	9.9	91	33	27	28
MAR												
14...	1115	5450	106	107	7.50	7.40	15.5	9.3	93	26	21	--
MAY												
25...	1200	3040	132	143	7.73	7.90	24.0	7.1	84	62	51	52
JUL												
12...	1200	11700	76	79	7.35	7.50	28.0	6.8	87	37	30	25
AUG												
24...	0815	3430	118	124	7.72	7.60	28.0	6.7	86	--	--	45

DATE	TUR-BID-ITY (NTU)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
NOV										
22...	5.4	740	160	50	18	1.2	9.3	28	0.6	1.3
JAN										
25...	11	36	80	26	8.6	1.2	11	46	0.9	1.7
MAR										
14...	15	48	140	30	10	1.1	8.2	36	0.7	1.5
MAY										
25...	5.7	570	39	53	19	1.3	7.7	24	0.5	1.3
JUL										
12...	32	270	160	27	9.1	1.1	4.2	24	0.4	1.8
AUG										
24...	3.2	--	--	45	16	1.3	5.9	21	0.4	1.3

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	(SOLIDS, SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
NOV								
22...	15	9.2	0.10	10	103	97	701	0.14
JAN								
25...	15	11	0.10	10	77	79	917	0.10
MAR								
14...	15	7.8	0.10	8.9	79	72	1160	0.11
MAY								
25...	6.0	6.7	0.10	9.7	98	86	804	0.13
JUL								
12...	4.0	5.4	0.10	9.1	63	55	1990	0.09
AUG								
24...	4.0	6.2	0.10	10	80	--	--	--

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	PHOS-PHOROUS DIS-SOLVED (MG/L AS P)	PHOS-PHOROUS ORTHO, DIS-SOLVED (MG/L AS P)
NOV 22...	<0.010	0.680	0.020	0.030	0.38	0.40	0.130	0.110	0.100
JAN 25...	0.010	0.670	0.050	0.070	0.15	0.20	0.210	0.050	0.040
MAR 14...	0.010	1.40	0.060	0.050	0.34	0.40	0.090	0.070	0.060
MAY 25...	<0.010	0.630	0.020	0.020	0.18	0.20	0.080	0.060	0.040
JUL 12...	0.010	0.330	0.060	0.040	0.44	0.50	0.050	0.040	0.030
AUG 24...	<0.010	0.360	0.010	0.020	0.29	0.30	0.040	0.020	0.010

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV 22...	30	<1	20	<0.5	<1	<1	<3	2	480	<5
JAN 25...	130	<1	19	<0.5	<1	1	<3	2	700	<5
MAY 25...	40	<1	22	<0.5	<1	1	<3	2	450	<1
AUG 24...	30	<1	20	<0.5	<1	<1	<3	1	250	1

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 22...	<4	13	<0.1	<10	2	<1	<1.0	32	<6	15
JAN 25...	<4	22	--	<10	4	<1	<1.0	26	<6	14
MAY 25...	<4	13	2.8	<10	2	<1	<1.0	35	<6	9
AUG 24...	<4	6	<0.1	<10	1	<1	<1.0	35	<6	9

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT						
07...	1451	84213	3770	23.0	12	122
07...	1456	84213	3770	23.0	11	112
NOV						
22...	1305	84213	2520	17.0	4	27
DEC						
02...	1459	84213	2240	15.0	4	24
02...	1504	84213	2240	15.0	4	24
JAN						
09...	1429	84213	1930	16.0	1	5.2
09...	1434	84213	1930	16.0	1	5.2
25...	1335	84213	4410	12.0	12	143
FEB						
27...	1536	84213	5290	12.5	16	229
27...	1541	84213	5290	12.5	14	200
MAR						
14...	1120	84213	5450	15.5	19	280
APR						
07...	1334	84213	5430	19.0	12	176
07...	1339	84213	5430	19.0	13	191
11...	0940	84213	12800	16.5	39	1350
11...	0945	84213	12800	16.5	42	1460
11...	1154	84213	13500	16.5	39	1430
11...	1343	84213	13900	16.5	50	1880
11...	1348	84213	13900	16.5	51	1920
12...	1310	84213	15700	16.0	35	1480
12...	1315	84213	15700	16.0	38	1610
15...	1700	84213	17000	16.0	37	1700
15...	1705	84213	17000	16.0	31	1420
18...	1441	84213	10600	16.5	13	373
18...	1446	84213	10600	16.5	16	460
20...	1316	84213	10300	17.5	12	335
20...	1321	84213	10300	17.5	15	418
MAY						
25...	1205	84213	3040	24.0	8	66
30...	1446	84213	1820	28.5	5	25
30...	1451	84213	1820	28.5	5	25
JUL						
12...	1205	84213	11700	28.0	19	600
21...	1339	84213	10600	26.5	12	345
21...	1344	84213	10600	26.5	17	488
AUG						
03...	1501	84213	4170	29.0	7	79
03...	1506	84213	4170	29.0	7	79
24...	0820	84213	3430	28.0	6	56
SEP						
13...	1501	84213	1320	27.0	4	14
13...	1506	84213	1320	27.0	5	18

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV				
22...	1305	84213	2520	86
JAN				
25...	1335	84213	4410	79
MAR				
14...	1120	84213	5450	85
APR				
11...	1149	84213	13500	60
12...	1310	84213	15700	69
18...	1441	84213	10600	84
MAY				
25...	1205	84213	3040	93
JUL				
12...	1205	84213	11700	90
AUG				
24...	0820	84213	3430	89

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
APR												
11...	1023	84213	13100	<1	<1	2	22	82	97	99	100	--
11...	1024	84213	13100	<1	<1	2	25	64	91	96	97	100
11...	1025	84213	13100	<1	<1	1	25	54	85	99	100	--
11...	1026	84213	13100	<1	<1	4	4	23	85	99	100	--
MAY												
30...	1600	84213	1820	<1	<1	2	29	93	100	100	--	--
30...	1601	84213	1820	<1	<1	3	15	62	92	98	99	100
30...	1602	84213	1820	<1	<1	2	10	19	50	87	99	100
30...	1603	84213	1820	<1	<1	1	3	23	72	91	96	100
SEP												
13...	1608	84213	1300	<1	<1	1	8	40	90	100	100	--
13...	1609	84213	1300	<1	<1	2	8	43	91	99	100	--
13...	1610	84213	1300	<1	<1	<1	6	24	68	95	97	100
13...	1611	84213	1300	<1	<1	2	2	12	64	94	100	--

02353400 PACHITLA CREEK NEAR EDISON, GA.

LOCATION.–Lat 31°33'17", long 84°40'43", Calhoun County, Hydrologic Unit 03130009, on downstream side of bridge on State Highway 37, 2.2 mi upstream from Neals Creek, 3.6 mi east of Edison, and 8.5 mi upstream from mouth.

DRAINAGE AREA.–188 mi^2.

PERIOD OF RECORD.–Annual maximum, water years 1950-59 and occasional low-flow measurements, 1951-58, 1972-81. June 1959 to September 1971, March 1988 to current year.

REVISED RECORDS.–WDR GA-71-1: 1960 (M).

GAGE.–Water-stage recorder. Datum of gage is 212.64 ft above National Geodetic Vertical Datum of 1929. Mar. 17, 1949 to Mar. 16, 1955, crest-stage at same site and datum. Mar. 17, 1955 to June 9, 1959, crest-stage gage at site 200 ft downstream at same datum.

REMARKS.–Estimated daily discharges: May 10-26, 1988. Records good, except those for the period of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.–13 years (water years 1959-71, 1989), 244 ft^3/s, 17.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum gage height, 10.34 ft Jan. 7, 1962 (discharge not determined). Minimum discharge, 35 ft^3/s Sept. 16, Oct. 6, 1968.

EXTREMES FOR CURRENT PERIOD–March to September 1988: Maximum discharge, 1,290 ft^3/s, July 5, gage height, 6.52 ft; no other peak greater than base discharge of 1,100 ft^3/s; minimum discharge, 32 ft^3/s, June 26.

Water year 1989: Peak discharge greater than base discharge of 1,100 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 10	0300	1,610	6.83
June 17	1900	1,180	6.40
July 5	0600	1,570	6.80
July 16	1900	*2,040	*7.18
July 22	0600	1,270	6.50

Minimum discharge, 38 ft^3/s, June 4.

02353400 PACHITLA CREEK NEAR EDISON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						—	184	124	50	136	77	76
2						—	182	123	49	166	71	70
3						—	182	116	46	225	61	69
4						—	182	110	47	795	60	112
5						—	179	115	45	1110	56	272
6						—	169	107	45	576	54	474
7						—	166	96	57	220	50	342
8						—	153	89	78	132	51	159
9						—	143	86	79	83	53	229
10						—	140	120	80	74	54	238
11						—	138	175	75	148	50	230
12						—	165	155	61	472	52	191
13						—	211	135	55	534	54	143
14						—	184	120	49	220	54	121
15						—	155	110	46	125	61	108
16						—	135	100	43	152	86	97
17						—	130	92	40	197	89	100
18						—	130	85	38	239	79	105
19						—	276	75	37	196	69	103
20						—	460	70	36	149	60	101
21						—	289	65	41	162	63	96
22						—	162	65	38	198	74	91
23						—	245	68	36	248	58	84
24						173	346	74	35	270	55	79
25						188	322	78	33	169	73	77
26						391	465	75	36	132	70	73
27						539	356	70	77	181	58	75
28						450	205	64	108	167	53	73
29						279	129	63	73	120	52	69
30						198	122	59	66	99	54	67
31						189	—	54	—	85	72	—
TOTAL						—	6305	2938	1599	7784	1923	4126
MEAN						—	210	94.8	53.3	251	62.0	138
MAX						—	465	175	108	1110	89	474
MIN						—	122	54	33	74	50	67
CFSM						—	1.12	.50	.28	1.34	.33	.73
IN.						—	1.25	.58	.32	1.54	.38	.82

02353400 PACHITLA CREEK NEAR EDISON, GA.–Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	89	111	154	159	166	199	226	45	281	180	127
2	70	91	106	183	125	176	148	542	42	451	133	142
3	207	88	103	147	115	280	130	612	42	464	166	130
4	509	87	101	125	110	440	121	257	39	581	138	139
5	595	106	103	110	106	353	145	137	43	1300	126	133
6	280	159	102	98	108	231	210	156	110	704	116	116
7	136	153	101	103	115	201	177	134	195	445	104	106
8	107	116	101	109	119	148	133	84	166	266	96	100
9	92	105	106	124	108	134	124	73	762	183	101	92
10	86	112	105	170	100	131	351	121	1390	154	105	90
11	83	112	116	227	97	125	890	213	784	169	106	89
12	82	105	151	186	96	124	863	225	322	157	100	84
13	78	101	152	148	95	121	493	124	201	146	94	81
14	73	101	126	136	95	117	273	102	159	351	96	78
15	71	104	116	136	95	111	215	97	136	451	124	90
16	70	104	118	135	97	123	289	92	387	1300	262	100
17	70	105	124	129	95	166	242	84	1010	1300	241	109
18	71	105	119	118	93	165	176	75	941	740	146	96
19	72	103	112	114	97	140	151	69	604	419	121	86
20	71	113	109	114	106	125	136	72	491	318	109	81
21	76	138	108	130	179	149	162	121	436	389	99	82
22	88	132	110	126	503	247	182	108	300	1130	92	97
23	88	123	115	112	668	319	138	97	205	705	86	112
24	83	122	118	105	393	529	119	105	142	452	81	101
25	80	116	114	103	194	469	97	105	108	375	73	102
26	76	112	112	101	157	256	93	89	119	290	69	166
27	75	110	110	102	145	156	88	76	109	216	122	192
28	77	123	109	101	145	144	81	65	103	183	225	161
29	78	151	118	99	—	139	81	58	102	162	160	163
30	81	123	124	99	—	155	100	49	192	148	141	173
31	86	—	121	132	—	224	—	47	—	182	131	—
TOTAL	3777	3409	3541	3976	4515	6364	6607	4415	9685	14412	3943	3418
MEAN	122	114	114	128	161	205	220	142	323	465	127	114
MAX	595	159	152	227	668	529	890	612	1390	1300	262	192
MIN	66	87	101	98	93	111	81	47	39	146	69	78
CFSM	.65	.61	.61	.68	.86	1.09	1.17	.76	1.72	2.47	.68	.61
IN.	.75	.67	.70	.79	.89	1.26	1.31	.87	1.92	2.85	.78	.68

WTR YR 1989 TOTAL 68062 MEAN 186 MAX 1390 MIN 39 CFSM .99 IN 13.47

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.

LOCATION.–Lat 31°22'58", long 84°32'52", Baker County, Hydrologic Unit 03130009, on downstream end of left bank pier of bridge on State Highway 216 at Milford, 2.2 mi upstream from Alligator Creek, and 5.5 mi upstream from Chickasawhatchee Creek.

DRAINAGE AREA.–620 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–September 1905 to December 1907, October 1939 to current year.

GAGE.–Water-stage recorder. Datum of gage is 150.3 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Aug. 29, 1905 to Dec. 31, 1907, nonrecording gage at several sites within 450 ft of present site at various datums. Oct. 1, 1939 to Nov. 10, 1941, nonrecording gage at site 100 ft downstream at present datum.

REMARKS.–No estimated daily discharges. Records good. Discharges during growing season affected by undetermined amount of irrigation withdrawal. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.–52 years (water years 1906-07, 1940-89), 775 ft^3/s, 16.98 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 11,900 ft^3/s, Jan. 27, 1978, gage height, 15.08 ft; minimum discharge, 45 ft3/s, July 19, 23, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.–Flood in July 1916 reached a stage of 17.2 ft, from information by local resident, discharge, 15,500 ft^3/s.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 18	1600	*3,030	*6.04	No other peak greater than base discharge.			

Minimum discharge, 127 ft^3/s, June 5, gage height, 0.63.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	205	309	349	353	443	664	496	174	740	518	395
2	163	208	284	388	404	490	639	834	167	860	519	412
3	214	212	274	414	370	723	555	1020	159	1040	467	422
4	543	212	267	389	339	872	488	1090	148	1310	472	357
5	766	218	262	347	323	892	489	969	131	1610	410	339
6	798	267	260	319	321	900	598	686	194	1920	366	304
7	707	320	257	303	329	893	618	479	324	2290	334	270
8	427	326	260	305	360	771	596	385	437	2000	300	252
9	309	288	259	312	344	606	519	318	781	1400	293	247
10	265	267	264	350	325	539	523	334	1410	967	293	235
11	245	257	273	427	304	499	958	555	2340	696	286	226
12	234	256	306	484	292	469	1610	666	2460	584	284	214
13	222	251	353	485	283	448	1870	620	1750	564	281	202
14	216	245	357	433	277	431	1710	460	980	638	275	198
15	208	244	328	391	275	417	1420	398	595	889	274	197
16	202	248	308	375	277	411	1220	359	747	1110	297	209
17	198	250	307	371	279	425	1010	330	1320	1750	383	234
18	197	249	309	363	277	452	867	304	2020	2860	407	242
19	199	251	303	343	276	452	738	283	2570	2360	327	221
20	197	263	292	328	281	413	630	276	2400	1800	291	203
21	196	324	286	331	342	399	560	283	2340	1520	270	195
22	203	349	283	344	632	494	572	355	2090	1310	244	206
23	214	327	277	339	779	703	603	357	1720	1500	221	234
24	218	311	288	320	868	916	557	364	1270	2010	208	251
25	211	307	292	307	891	1040	476	357	871	1790	202	247
26	207	300	287	297	746	1080	421	340	635	1400	184	282
27	201	290	288	290	588	961	397	298	563	1130	199	417
28	197	286	290	292	445	769	369	260	545	939	276	453
29	198	286	287	291	—	603	342	237	457	747	399	443
30	200	325	296	291	—	552	357	217	510	604	465	436
31	201	—	313	302	—	636	—	193	—	527	488	—
TOTAL	8718	8142	9019	10880	11580	19699	22376	14123	32108	40865	10233	8543
MEAN	281	271	291	351	414	635	746	456	1070	1318	330	285
MAX	798	349	357	485	891	1080	1870	1090	2570	2860	519	453
MIN	162	205	257	290	275	399	342	193	131	527	184	195
CFSM	.45	.44	.47	.57	.67	1.02	1.20	.74	1.73	2.13	.53	.46
IN.	.52	.49	.54	.65	.69	1.18	1.34	.85	1.93	2.45	.61	.51
CAL YR 1988TOTAL		179448	MEAN	490	MAX	2600	MIN	84	CFSM	.79	IN	10.77
WTR YR 1989TOTAL		196286	MEAN	538	MAX	2860	MIN	131	CFSM	.87	IN	11.78

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAR									
13...	1500	446	92	94	7.48	7.50	16.5	9.0	92
JUL									
11...	1400	669	92	96	7.09	7.50	26.0	6.0	74

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
MAR										
13...	50	6.5	39	14	1.1	2.5	12	0.2	0.80	35
JUL										
11...	--	12	40	14	1.2	2.4	11	0.2	0.90	36

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
MAR												
13...	4.1	4.7	0.10	6.1	64	--	--	--	0.700	0.640	0.030	0.020
JUL												
11...	<1.0	4.8	0.10	7.4	67	--	--	--	0.500	0.570	0.050	0.060

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN DISSOLVED (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)
MAR 13...	0.37	0.18	0.40	0.20	1.1	0.84	0.020	0.010	4.8	30	<1	<1
JUL 11...	0.45	0.54	0.50	0.60	1.0	1.2	0.030	0.010	8.8	40	1	<1

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)
MAR 13...	<1	1	<1	440	6	<5	59	<0.10	0.7	<1	<3
JUL 11...	<1	<1	7	790	2	2	110	<0.10	0.2	<1	5

02356000 FLINT RIVER AT BAINBRIDGE, GA.

LOCATION.--Lat 30°54'41", long 84°34'48", Decatur County, Hydrologic Unit 03130008, on downstream side of bridge on U.S. Highway 27 (Business Route), 0.2 mi downstream from Seaboard Coast Line Railroad bridge, and 29.2 mi upstream from Jim Woodruff Dam, and at mile 29.0.

DRAINAGE AREA.--7,570 mi^2, approximately.

PERIOD OF RECORD.--Discharge: October 1907 to December 1913, October 1928 to September 1971. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.
Chemical analyses: February 1968 to September 1973.
Annual peaks: Water years 1972-76, 1978-88.
Continuous gage-height record: August 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 58.06 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 31, 1913, nonrecording gage at same site at datum 0.3 ft higher. Oct. 1, 1928 to Jan. 14, 1929, nonrecording gage at present site and datum. Auxiliary water-stage recorder at site 6.4 mi upstream Jan. 15, 1957 to September 1971.

REMARKS.--Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft); and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft. Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--49 years (water years 1908-13, 1929-71), 8,740 ft^3/s, 15.68 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,200 ft^3/s, Mar. 21, 1929, gage height, 37.73 ft; minimum daily discharge, 1,340 ft^3/s, Sept. 25, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, 40.9 ft, present datum, Jan. 24, 1925, discharge 101,000 ft^3/s, from rating curve extended above 70,000 ft^3/s on basis of slope-conveyance studies.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,300 ft^3/s, Apr. 16, gage height, 21.35 ft.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.75	17.98	18.50	18.01	18.46	18.88	19.36	18.81	18.95	19.93	19.36	19.44
2	18.59	18.09	18.62	17.81	18.50	18.96	18.84	18.96	19.10	19.97	19.38	19.41
3	18.67	18.22	18.65	18.10	18.56	19.22	18.43	19.18	19.18	19.75	19.36	19.07
4	18.88	18.38	18.31	18.41	18.56	19.42	18.39	19.47	19.06	19.90	19.38	18.94
5	19.01	18.56	17.98	18.67	18.32	19.36	18.39	19.49	18.87	19.99	19.45	19.00
6	19.18	18.29	17.98	18.95	18.10	19.55	18.59	19.58	18.90	20.23	19.16	19.03
7	19.21	18.03	18.04	18.89	18.20	19.80	19.48	19.29	18.86	20.38	18.84	19.13
8	19.20	18.17	18.10	18.60	18.23	19.80	19.77	19.09	19.06	20.76	18.86	19.08
9	18.94	18.47	18.24	18.30	18.31	19.78	19.34	19.20	19.64	20.22	18.96	18.97
10	18.64	18.65	18.26	18.50	18.47	19.72	19.17	19.26	19.72	20.40	19.02	18.53
11	18.66	18.81	18.01	18.83	18.48	19.46	19.79	19.42	19.82	20.58	19.07	18.08
12	18.70	18.83	17.83	19.05	18.27	18.98	20.72	19.40	20.08	20.43	19.10	18.06
13	18.77	18.60	17.94	19.23	18.03	18.79	20.78	19.26	19.96	20.02	18.73	18.14
14	18.91	18.31	18.10	19.18	17.85	18.90	20.86	19.03	19.86	19.68	18.33	18.27
15	18.85	18.39	18.19	18.85	17.66	18.93	21.22	18.86	19.72	19.87	18.63	18.45
16	18.51	18.53	18.24	18.47	17.74	18.93	21.24	18.95	19.77	20.00	18.94	18.57
17	18.27	18.59	18.24	18.38	17.93	19.12	20.88	18.97	19.78	20.22	19.20	18.19
18	18.29	18.51	17.91	18.37	18.10	19.20	20.37	19.01	19.89	20.25	19.49	17.75
19	18.42	18.40	17.67	18.32	17.89	18.89	20.15	18.96	19.64	20.43	19.69	17.88
20	18.52	18.18	17.74	18.18	17.68	18.64	20.04	18.89	20.11	20.33	19.21	18.05
21	18.62	17.93	17.86	18.17	17.84	18.83	20.10	18.85	20.38	20.45	18.82	18.26
22	18.63	18.00	17.99	17.98	18.21	18.88	19.86	18.60	20.33	20.42	18.98	18.49
23	18.27	18.23	18.12	17.84	18.76	18.94	19.31	18.74	20.38	20.08	19.13	18.56
24	18.04	18.39	18.23	18.06	18.91	19.24	18.80	19.01	20.36	19.81	19.31	18.02
25	18.13	18.50	17.95	18.36	19.16	19.56	18.75	19.11	20.10	20.17	19.40	17.61
26	18.29	18.56	17.65	18.58	19.02	19.87	18.91	19.22	20.06	20.55	19.37	17.91
27	18.41	18.38	17.64	18.73	18.87	19.81	19.07	19.29	19.86	20.47	18.88	18.19
28	18.52	18.16	17.77	18.70	18.94	19.56	19.17	19.03	19.61	20.25	18.50	18.47
29	18.56	18.18	17.94	18.37	---	19.58	18.94	18.89	19.64	20.12	18.67	18.71
30	18.24	18.37	18.18	18.23	---	19.59	18.76	18.85	19.67	19.66	18.93	18.91
31	17.90	---	18.19	18.30	---	19.50	---	18.88	---	19.27	19.16	---
MEAN	18.60	18.36	18.07	18.47	18.32	19.28	19.58	19.08	19.68	20.15	19.07	18.51
MAX	19.21	18.83	18.65	19.23	19.16	19.87	21.24	19.58	20.38	20.76	19.69	19.44
MIN	17.90	17.93	17.64	17.81	17.66	18.64	18.39	18.60	18.86	19.27	18.33	17.61

WTR YR 1989 MEAN 18.93 MAX 21.24 MIN 17.61

02356015 FLINT RIVER BELOW BAINBRIDGE, GA.

LOCATION.–Lat 30°53'34", long 84°36'38", Decatur County, Hydrologic Unit 03130008, at Bainbridge, 0.8 mi downstream from State Docks, and at mile 26.5.

DRAINAGE AREA.–7,570 mi^2, approximately.

PERIOD OF RECORD.–July 1974 to current year.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
19...	1110	170	174	7.60	7.90	21.0	26.0	9.5	108
NOV									
16...	1210	150	162	7.60	7.70	20.5	26.0	9.1	102
DEC									
20...	1145	158	154	7.50	7.70	12.5	21.5	11.2	104
JAN									
18...	1220	145	150	7.50	7.60	16.0	17.5	10.6	108
FEB									
15...	1105	156	154	7.50	7.60	17.0	22.0	9.2	95
MAR									
22...	1120	135	124	7.50	7.50	19.0	16.5	8.0	87
APR									
19...	1145	83	--	7.30	7.30	19.0	28.0	8.0	87
MAY									
17...	1055	136	138	7.60	7.70	22.5	32.0	7.6	89
JUN									
21...	1110	108	108	7.40	7.40	25.0	26.0	6.6	81
JUL									
19...	1155	108	108	7.40	7.50	26.5	31.0	6.6	83
AUG									
23...	1130	163	167	7.80	7.70	28.0	32.5	7.4	96
SEP									
20...	1040	170	174	7.80	7.80	22.5	23.5	8.7	102

02356015 FLINT RIVER BELOW BAINBRIDGE, GA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT							
19...	40	4.0	--	0.5	50	62	1
NOV							
16...	25	4.0	--	1.4	490	47	2
DEC							
20...	30	4.0	--	0.5	20	56	6
JAN							
18...	40	6.0	--	1.5	170	41	1
FEB							
15...	20	6.0	--	1.6	490	50	3
MAR							
22...	40	9.0	--	1.1	90	46	4
APR							
19...	--	28	--	1.8	--	21	20
MAY							
17...	50	10	--	0.8	<20	47	3
JUN							
21...	80	29	--	1.2	13000	32	10
JUL							
19...	100	26	--	0.8	1100	37	11
AUG							
23...	40	3.0	12	1.3	330	60	<1
SEP							
20...	5	4.0	13	0.9	90	62	<1

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
19...	0.960	0.090	--	--	--	0.080	2.7
NOV							
16...	0.930	0.150	--	--	--	0.180	2.9
DEC							
20...	1.08	0.100	--	--	--	0.120	3.0
JAN							
18...	0.750	<0.030	--	--	--	0.110	7.4
FEB							
15...	0.920	0.180	--	--	--	0.210	4.5
MAR							
22...	0.890	0.160	--	--	--	0.060	4.4
APR							
19...	0.410	0.060	--	--	--	0.130	6.3
MAY							
17...	0.850	<0.030	--	--	--	0.140	4.9
JUN							
21...	0.650	0.300	--	--	--	0.160	6.5
JUL							
19...	0.530	0.080	--	--	--	0.090	9.6
AUG							
23...	1.28	0.290	0.21	0.50	1.8	0.050	3.4
SEP							
20...	0.850	<0.030	--	1.2	2.1	0.310	--

02357000 SPRING CREEK NEAR IRON CITY, GA.

LOCATION.--Lat 31°02'23", long 84°44'18", Decatur County, Hydrologic Unit 03130010, on right bank 25 ft downstream from county bridge, 1.5 mi downstream from Aycock Creek, 1.5 mi upstream from Dry Creek, 5.0 mi north of Brinson, and 5.5 mi northeast of Iron City.

DRAINAGE AREA.--485 mi^2, approximately.

PERIOD OF RECORD.--November 1920 to June 1921, June 1937 to April 1971, water years 1972-76 (annual maximum), December 1976 to September 1978, June 1982 to current year. Monthly discharge only for November 1920 to June 1921, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 85.7 ft above National Geodetic Vertical Datum of 1929. Oct. 21, 1920 to June 30, 1921, nonrecording gage at site 125 ft upstream at different datum, June 11, 1937 to Oct. 17, 1952, nonrecording gage at site 125 ft upstream at present datum, Oct. 18, 1952 to April 1971, recording gage at same site and datum as present, May 1971 to Dec. 1976, nonrecording gage at same site and datum as present.

REMARKS.--Estimated daily discharges: June 21, 22. Records good, except those for the period of estimated discharge, which are fair. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

AVERAGE DISCHARGE.--41 years (water years 1938-70, 1978, 1983-89), 488 ft^3/s, 13.66 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,700 ft^3/s Apr. 12, 1975, gage height, 19.43 ft; maximum gage height 19.9 ft, Apr. 2, 1948; minimum discharge, 5.0 ft^3/s, Aug. 14, 15, 18, and 19, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 5.3 ft^3/s was measured on July 13, 1981. The effect of irrigation on this measurement is unknown.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 12	1100	2,450	12.43	July 21	1900	2,360	12.29
June 20	0600	*3,650	*13.95				

Minimum discharge, 47 ft^3/s, Oct. 29-31.

02357000 SPRING CREEK NEAR IRON CITY, GA.–Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	48	77	93	92	225	519	220	135	709	907	335
2	57	49	77	109	94	205	499	275	113	695	824	313
3	59	48	77	125	98	255	490	323	99	772	685	303
4	70	48	74	156	100	310	476	404	88	848	588	296
5	87	51	70	180	98	414	456	482	80	984	515	267
6	127	53	67	193	95	544	446	515	82	1150	460	241
7	179	56	65	174	94	629	427	432	90	1510	414	224
8	213	61	63	140	92	615	439	327	125	1360	389	212
9	182	63	62	122	87	547	445	273	391	1100	377	199
10	136	63	61	114	87	508	435	242	1320	912	359	186
11	112	61	62	113	91	470	472	231	2250	768	344	174
12	98	58	66	117	92	413	511	229	2420	652	327	162
13	88	55	74	125	89	367	593	239	2210	586	310	151
14	81	53	82	133	84	338	708	257	1690	715	300	143
15	75	52	89	138	80	318	823	260	1130	784	316	136
16	70	51	94	134	78	302	831	230	915	911	341	133
17	66	55	96	130	76	300	703	196	1170	1010	363	135
18	63	63	93	125	75	291	625	170	2150	1140	354	135
19	61	61	91	119	75	278	592	152	3370	1330	348	133
20	58	61	88	114	75	266	562	138	3550	1870	337	127
21	56	69	85	108	85	265	503	130	2900	2220	298	122
22	56	79	82	102	133	309	441	128	2500	2090	292	119
23	56	89	80	98	171	350	398	134	2410	1690	274	116
24	56	98	78	97	210	432	367	183	2100	1680	252	112
25	55	107	76	96	246	522	339	223	1680	1970	233	115
26	54	109	74	94	310	681	312	298	1280	1850	216	127
27	51	99	73	93	353	819	286	380	1030	1510	203	146
28	49	89	73	90	293	834	261	409	885	1300	208	159
29	48	82	72	88	---	726	240	333	798	1070	272	159
30	47	78	72	87	---	622	222	228	780	951	282	164
31	48	---	75	89	---	571	---	168	---	867	290	---
TOTAL	2516	2009	2368	3696	3553	13726	14421	8209	39741	37004	11678	5344
MEAN	81.2	67.0	76.4	119	127	443	481	265	1325	1194	377	178
MAX	213	109	96	193	353	834	831	515	3550	2220	907	335
MIN	47	48	61	87	75	205	222	128	80	586	203	112
CFSM	.17	.14	.16	.25	.26	.91	.99	.55	2.73	2.46	.78	.37
IN.	.19	.15	.18	.28	.27	1.05	1.11	.63	3.05	2.84	.90	.41

CAL YR 1988	TOTAL	141180	MEAN	386	MAX	4410	MIN	24	CFSM	80	IN	10.83
WTR YR 1989	TOTAL	144265	MEAN	395	MAX	3550	MIN	47	CFSM	81	IN	11.07

02334400 LAKE SIDNEY LANIER NEAR BUFORD, GA.

LOCATION.--Lat 34°04'30", long 84°04'20", Forsyth County, Hydrologic Unit 03130001, at forebay of dam on Chattahoochee River, 2.5 mi upstream from bridge on State Highway 20, 4.5 mi northwest of Buford, Ga., and at mile 348.3.

DRAINAGE AREA.--1,040 mi^2, approximately.

PERIOD OF RECORD.--January 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by a rolled-fill earth dam. Storage began in January 1956; dam completed in June 1957. Usable capacity, 1,686,000 acre-ft between elevations 1,035 ft and 1,085 ft. Dead storage, 868,000 acre-ft. Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 2,205,200 acre-ft Apr. 14, 1964, elevation, 1,077.20 ft; minimum, after beginning operation, 1,329,300 acre-ft Dec. 23, 24, 1981, elevation, 1,052.66 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,004,800 acre-ft July 31, elevation, 1,072.27 ft; minimum, 1,453,200 acre-ft Dec. 30, elevation, 1,056.67 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30	1058.04	1497100	-	-
Oct. 31	1057.76	1488100	-9000	-146
Nov. 30	1057.29	1473100	-15000	-252
Dec. 31	1056.81	1457700	-15400	-250
CAL YR 1988	-	--	-54600	-75
Jan. 31	1058.49	1511700	+54000	+878
Feb. 28	1060.39	1574300	+62600	+1127
Mar. 31	1063.45	1678700	+104400	+1698
Apr. 30	1065.24	1741700	+63000	+1059
May 31	1066.34	1781400	+39700	+646
June 30	1070.26	1926900	+145500	+2445
July 31	1072.20	2002100	+75200	+1223
Aug. 31	1070.40	1932300	-69800	-1135
Sept. 30	1069.98	1916200	-16100	-271
WTR YR 1989	-	-	+419100	+579

02339400 WEST POINT LAKE NEAR WEST POINT, GA.

LOCATION.--Lat 32°55'05", long 85°11'17", Troup County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 2.3 mi upstream from Oseligee Creek, 3.0 mi north of West Point, Ga., 3.2 mi upstream from bridge on U.S. Highway 29, and at mile 201.4.

DRAINAGE AREA, 3,440 mi^2, approximately.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by concrete gravity dam with earth dikes at either side. Spillway (crest elevation, 597 ft) is equipped with six tainter gates 50 ft wide by 41 ft high. Storage began Oct. 16, 1974; lake reached maximum power pool, 635 ft, on June 10, 1975. Total capacity at elevation, 641 ft; maximum flood control pool, 774,800 acre-ft.

Capacity at elevation, 635 ft, maximum power pool, 604,500 acre-ft. Dead storage below elevation 620 ft, mimimum power pool, 298,400 acre-ft. Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 690,700 acre-ft April 16, 1979, elevation, 638.17 ft; minimum, since first filling, 295 200 acre-ft, Nov. 8, 1985, elevation, 619.80 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 580,100 acre-ft Aug. 7, elevation, 637.04 ft; minimum, 316,800 acre-ft Dec. 31, elevation, 624.16 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

			Change in contents	
Date	Elevation (feet)	Contents (acre-feet)	(acre-feet)	(equivalent in cubic feet per second)
Sept. 30	634.17	511200	-	-
Oct. 31	631.24	447300	-63900	-1039
Nov. 30	628.25	388200	-59100	-993
Dec. 31	624.53	322900	-65300	-1062
CAL YR 1988	-	-	-9200	-13
Jan. 31	626.50	356400	+33500	+545
Feb. 28	628.23	387800	+31400	+565
Mar. 31	632.73	479100	+91300	+1485
Apr. 30	634.02	507800	+28700	+482
May 31	634.66	522600	+14800	+241
June 30	635.22	535700	+13100	+220
July 31	636.24	560300	+24600	+400
Aug. 31	634.16	511000	-49300	-802
Sept. 30	634.29	514000	+3000	+50
WTR YR 1988	-	-	+2800	+4

02341000 LAKE HARDING NEAR COLUMBUS, GA.

LOCATION.--Lat 32°39'46", long 85°05'27", Harris County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 3.3 mi upstream from Mulberry Creek, 15 mi northwest of Columbus, Ga., and at mile 178.0.

DRAINAGE AREA.--4,240 mi^2, approximately.

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Reservoir is formed by concrete gravity dam with earth fill abutments. Spillway (crest elevation, 500.0 ft) is equipped with 19 tainter gates 25 ft wide by 21 ft high and two trash gates 11 ft wide by 9 ft high. Storage began in 1926; water in reservoir first reached minimum pool elevation in 1926. Total capacity at elevation 521.0 ft, top of gates, is 181,000 acre-ft, of which 136,000 acre-ft is usable storage. Reservoir is used for power development.

Capacity curve and month-end elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	517.3	159000	-	-
Oct. 31................	519.9	174000	+15000	+244
Nov. 30................	519.9	174000	0	0
Dec. 31................	520.0	175000	+1000	+16
CAL YR 1988	-	-	+1000	+1
Jan. 31................	520.1	176000	+1000	+16
Feb. 28................	520.1	176000	0	0
Mar. 31................	520.5	178000	+2000	+33
Apr. 30................	520.3	177000	-1000	-17
May 31................	520.4	177000	0	0
June 30................	520.4	177000	0	0
July 31................	520.1	176000	-1000	-16
Aug. 31................	519.6	173000	-3000	-49
Sept. 30................	520.1	176000	+3000	+50
WTR YR 1989	-	-	+17000	+23

*Elevation at 0700 on day following that shown in first column.

02343240 WALTER F. GEORGE LAKE NEAR FORT GAINES, GA.

LOCATION.--Lat 31°37'27", long 85°04'03", Clay County, Hydrologic Unit 03130003, at forebay of dam on Chattanoochee River, 1.6 mi upstream from bridge on State Highway 37, 1 mi north of Ft. Gaines, Ga., and at mile 75.0.

DRAINAGE AREA.--7,460 mi^2, approximately.

PERIOD OF RECORD.--May 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by concrete gravity dam and navigation lock with earth dikes on either side. The nonoverflow section at the dam includes a powerhouse. Filling began in May 1962. Power operations commenced on Mar. 13, 1963. The spillway (crest elevation, 163.0 ft) is equipped with 14 tainter gates 42 ft wide by 29 ft high. Total capacity at elevation 190.0 ft, full summer pool, 934,400 acre-ft, of which 244,400 acre-ft between elevations 190.0 and 184.0 ft, minimum pool, is controlled storage. Lake is used for navigation and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 993,700 acre-ft May 20, 1969, elevation, 191.28 ft; minimum, after first filling, 660,400 acre-ft Apr. 23, 1965, elevation, 183.17 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 971,800 acre-ft July 6, elevation, 190.81 ft; minimum, 708,700 acre-ft Feb. 18, elevation, 184.50 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30	189.06	892700	-	-
Oct. 31	186.83	798800	-93900	-1527
Nov. 30	186.23	774900	-23900	-402
Dec. 31	185.44	744100	-30800	-501
CAL YR 1988	-	-	-45500	-63
Jan. 31	184.89	723100	-21000	-342
Feb. 28	186.61	790000	+66900	+1205
Mar. 31	188.99	889600	+99600	+1620
Apr. 30	188.39	863800	-25800	-434
May 31	187.28	817200	-46600	-758
June 30	189.75	923400	+106200	+1785
July 31	189.59	916200	-7200	-117
Aug. 31	187.54	828000	-88200	+1434
Sept. 30	186.12	770500	-57500	-966
WTR YR 1989	-	-	-122200	-169

02357500 LAKE SEMINOLE NEAR CHATTAHOOCHEE, FL

LOCATION.--Lat 30°42'33", long 84°51'45", Gadsden County, Fla., Hydrologic Unit 03130004, on right upstream lock wall of Jim Woodruff Dam on Chattahoochee River, 0.6 mi upstream from bridge on U.S. Highway 90, and 1.5 mi northwest of Chattahoohee, Fla.

DRAINAGE AREA.--17,100 mi², approximately.

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1959, published as Jim Woodruff Reservoir at Chattahoochee.

REVISIONS.--WSP 1554: 1955-57.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 22, 1957, non-recording gage at same site at datum 53.96 ft higher; gage readings have been reduced to elevation above mean sea level.

REMARKS.--Lake is formed by earthfill dam with concrete fixed-crest spillway, a center channel spillway with 16 vertical lift gates 40 ft long by 30.5 ft high, and a side channel navigation lock 82 ft wide. Gates closed on May 20, 1954; filling of pool accomplished in several stages between that date and Feb. 4, 1957, when the pool first reached normal operating level, 77.0 ft. Total capacity at elevation 77.0 ft, normal pool, is 367,300 acre-ft, of which 36,170 acre-ft between elevations 77.0 and 76.0 ft is used for pondage. Lake is used for navigation and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 433,000 acre-ft Apr. 7, 8, 1960, elevation, 78.66 ft; minimum after Feb. 4, 1957, 272,100 acre-ft Nov. 27, 1978, elevation 74.18.

EXTREMES FOR CURRENT YEAR: Maximum contents 398,800 acre-ft June 17, elevation, 77.81 ft; minimum, 321,800 acre-ft Feb. 16, elevation 75.72 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30	76.99	366900	-	-
Oct. 31	76.10	334700	-32200	-524
Nov. 30	76.53	350300	+15600	+262
Dec. 31	76.17	337200	-13100	-213
CAL YR 1988	-	-	-23900	-33
Jan. 31	76.47	348100	+10900	+177
Feb. 28	76.91	364000	+15900	+286
Mar. 31	77.29	378600	+14600	+237
Apr. 30	76.69	356100	-22500	-378
May 31	77.04	368800	+12700	+207
June 30	77.57	389500	+20700	+348
July 31	76.99	366900	-22600	-368
Aug. 31	77.35	380900	+14000	+228
Sept. 30	76.93	364800	-16100	-271
WTR YR 1989	-	-	-2100	-3

02380500 COOSAWATTEE RIVER NEAR ELLIJAY, GA.

LOCATION.–Lat 34°40'18", long 84°30'31", Gilmer County, Hydrologic Unit 03150102, on right bank 0.5 mi downstream from State Highway 5, 2 mi southwest of Ellijay, and 2.2 mi downstream from confluence of Cartecay and Ellijay Rivers.

DRAINAGE AREA.–236 mi².

PERIOD OF RECORD.–October 1938 to December 1949, June 1963 to current year. Occasional low-flow measurements 1959, 1961-62.

REVISED RECORDS.–WRD GA-80-1: Drainage area.

GAGE.–Water-stage recorder. Datum of gage is 1,216.04 ft above National Geodetic Vertical Datum of 1929. Prior to June 10, nonrecording gage at site 0.5 mi upstream at datum 8.04 ft higher.

REMARKS.–No estimated daily discharges. Records good.

AVERAGE DISCHARGE.–37 years (water years 1939-49, 1964-89), 503 ft³/s, 28.94 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 17,000 ft³/s, Oct. 4, 1964, gage height, 17.63 ft; minimum discharge, 65 ft³/s, Sept. 3, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known since at least 1938, 20.7 ft, Mar. 19, 1951, from floodmark.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 3,500 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Sept. 30	2400	*5,970	*7.87	No other peak greater than base discharge.			

Minimum discharge, 87 ft³/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	113	210	949	281	1370	494	766	366	654	474	311
2	440	108	192	543	264	969	453	686	365	627	555	310
3	304	105	180	479	259	793	532	526	373	919	478	291
4	199	112	172	437	261	749	1030	486	379	1050	450	277
5	153	266	165	353	456	1860	1610	899	453	864	431	270
6	132	242	160	437	815	2130	1060	1100	657	1770	422	283
7	123	173	156	402	831	1410	1130	721	480	1660	417	286
8	116	167	154	424	646	1040	1500	612	433	1160	399	274
9	112	167	154	442	501	876	1620	695	518	922	394	267
10	110	157	150	638	432	783	1140	808	477	875	384	275
11	108	172	146	1050	398	710	955	668	415	886	387	298
12	104	153	142	1320	370	659	855	598	398	794	375	275
13	99	170	140	1320	350	614	789	552	557	753	365	270
14	98	160	139	956	333	578	734	536	550	705	428	296
15	99	149	139	779	321	552	801	524	1830	645	503	284
16	99	277	135	610	312	664	710	489	2370	671	492	336
17	98	570	133	509	338	545	653	462	1790	658	411	277
18	104	292	131	451	411	514	611	445	1040	595	393	257
19	176	223	129	417	429	495	591	438	853	638	372	247
20	134	344	131	383	453	519	563	547	1350	714	356	241
21	141	363	134	350	1090	896	547	495	2450	627	345	281
22	143	263	142	331	892	702	532	444	2080	627	334	1050
23	123	221	150	316	630	935	521	611	1760	605	331	556
24	115	199	187	304	516	1020	509	487	1380	586	372	368
25	109	182	222	280	460	811	493	440	1080	580	348	656
26	106	172	174	272	435	700	480	423	966	574	351	884
27	105	288	156	308	636	628	468	429	815	544	524	479
28	107	349	168	273	2590	583	467	408	749	514	358	448
29	109	266	185	263	---	556	479	387	726	498	331	1410
30	105	230	219	308	---	630	457	380	739	499	339	2420
31	107	---	666	310	---	541	---	373	---	478	329	---
TOTAL	4190	6653	5461	16214	15710	25832	22784	17435	28399	23692	12448	14177
MEAN	135	222	176	523	561	833	759	562	947	764	402	473
MAX	440	570	666	1320	2590	2130	1620	1100	2450	1770	555	2420
MIN	98	105	129	263	259	495	453	373	365	478	329	241
CFSM	.57	.94	.75	2.22	2.38	3.53	3.22	2.38	4.01	3.24	1.70	2.00
IN.	.66	1.05	.86	2.56	2.48	4.07	3.59	2.75	4.48	3.73	1.96	2.23

CAL YR 1988	TOTAL	78672	MEAN	215	MAX	2260	MIN	69	CFSM	.91	IN	12.40
WTR YR 1989	TOTAL	192995	MEAN	529	MAX	2590	MIN	98	CFSM	2.24	IN	30.42

02381600 FAUSETT CREEK NEAR TALKING ROCK, GA.

LOCATION.--Lat 34°34'13", long 84°28'08", Gilmer County, Hydrologic Unit 03150102, on right bank 25 ft upstream from culvert on County Road 1011, 3.6 mi upstream from mouth, and 4.5 mi northeast of Talking Rock.

DRAINAGE AREA.--9.99 mi².

PERIOD OF RECORD.--Annual maximum, water years 1966-74, October 1974 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,320 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Oct. 3-Feb. 2. Records good, except those for the period of estimated daily discharge, which are fair.

AVERAGE DISCHARGE.--15 years, 17.2 ft³/s, 23.38 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft³/s, May 29, 1973, gage height, 16.96 ft, from floodmarks; minimum daily discharge, 1.1 ft³/s, June 26, 27, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 4	2315	389	4.18	Aug. 1	2200	396	4.22
June 21	0745	371	4.07	Sept. 30	1915	*564	*5.18

Minimum daily discharge, 3.0 ft³/s, Oct. 12, based on hydrologic comparison with nearby sites.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	3.2	5.4	35	7.2	45	15	25	10	19	47	9.8
2	27	3.2	5.2	10	7.2	31	14	18	10	18	40	9.6
3	11	3.3	4.9	14	7.4	26	18	15	11	31	19	9.1
4	6.8	4.2	4.7	9.4	7.3	54	40	14	11	32	16	8.6
5	4.9	13	4.5	8.1	17	107	86	22	12	27	15	8.8
6	4.5	7.9	4.3	8.6	25	49	41	19	14	80	14	9.4
7	4.2	4.2	4.2	7.6	24	31	52	15	11	43	13	9.4
8	3.8	4.0	4.1	10	18	24	84	14	12	31	12	9.1
9	3.5	3.8	4.1	12	14	20	68	22	13	28	12	8.8
10	3.3	4.1	4.0	22	12	18	42	20	11	25	12	10
11	3.1	3.7	4.0	69	11	16	33	17	10	23	12	9.7
12	3.0	3.5	4.0	53	10	15	28	15	10	22	11	9.2
13	3.1	4.2	4.0	58	9.8	14	25	14	15	21	11	8.8
14	3.3	4.2	4.0	25	8.9	14	23	14	22	21	15	8.8
15	3.4	4.2	4.0	17	8.5	16	28	14	71	20	33	9.6
16	3.3	8.3	4.0	13	8.4	19	22	13	82	21	16	9.9
17	3.3	12	4.0	13	9.1	15	20	13	44	20	14	8.8
18	5.5	6.4	4.0	12	13	15	20	12	25	19	13	8.5
19	8.4	6.0	4.0	10	12	14	20	12	20	26	12	8.2
20	5.7	9.6	3.6	9.0	16	17	19	17	37	20	12	8.1
21	5.0	8.0	3.6	8.4	65	31	18	13	128	21	12	11
22	4.2	6.6	3.6	8.0	30	22	18	12	72	18	11	33
23	3.8	5.8	4.0	7.6	20	31	17	18	41	16	11	14
24	3.7	5.2	5.9	7.3	16	28	16	13	30	15	11	11
25	3.6	4.7	7.3	7.2	14	22	15	12	28	17	10	33
26	3.5	4.2	5.3	7.3	14	20	15	12	24	16	15	20
27	3.4	11	4.9	7.6	34	18	15	14	21	15	14	13
28	3.3	9.9	6.0	7.6	144	17	15	11	20	14	11	27
29	3.3	7.4	7.6	7.4	---	16	15	11	21	14	10	37
30	3.2	5.7	15	7.5	---	18	14	11	20	13	11	188
31	3.2	---	42	7.6	---	16	---	10	---	13	10	---
TOTAL	158.6	181.5	190.2	499.2	582.8	799	856	462	856	719	475	569.2
MEAN	5.12	6.05	6.14	16.1	20.8	25.8	28.5	14.9	28.5	23.2	15.3	19.0
MAX	27	13	42	69	144	107	86	25	128	80	47	188
MIN	3.0	3.2	3.6	7.2	7.2	14	14	10	10	13	10	8.1
CFSM	.51	.61	.62	1.61	2.08	2.58	2.85	1.49	2.85	2.32	1.53	1.90
IN.	.59	.68	.71	1.86	2.17	2.97	3.19	1.72	3.19	2.68	1.77	2.12

CAL YR 1988	TOTAL	2699.2	MEAN	7.37	MAX	113	MIN	1.4	CFSM	.74	IN	10.05
WTR YR 1989	TOTAL	6348.5	MEAN	17.4	MAX	188	MIN	3.0	CFSM	1.74	IN	23.64

02381950 SCARECORN CREEK ABOVE HINTON, GA.

LOCATION.--Lat 34°27'11", long 84°33'28", Pickens County, Hydrologic Unit 03150102, on right bank, approximately 300 ft downstream from bridge on Pickens County Road 150, 1.8 mi south of State Highway 53, 2.4 mi southeast of Hinton, and 8.0 mi upstream from mouth.

DRAINAGE AREA.--6.4 mi^2.

PERIOD OF RECORD.--July 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,120 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good. Peak flow regulated by Soil Conservation Service flood-retention reservoir since 1961.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 241 ft^3/s, Sept. 3, 1986, gage height, 2.83 ft; minimum daily discharge, 0.12 ft^3/s, July 22,23, 1986.

EXTREMES FOR CURRENT YEAR.-Maximum gage height, 2.52 ft, Sept. 30, discharge not determined; minimum daily discharge, 0.61 ft^3/s, Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.6	4.8	25	4.0	42	8.6	10	2.7	8.1	4.6	2.4
2	19	2.1	3.7	14	3.9	24	8.1	9.0	2.6	7.5	7.3	2.6
3	10	2.0	3.3	21	3.7	15	8.3	6.9	4.3	13	5.0	2.1
4	5.5	2.5	3.0	20	3.6	25	15	6.4	4.1	14	3.3	1.7
5	2.0	11	2.7	11	9.6	106	33	9.3	4.8	14	3.0	1.5
6	1.2	5.2	2.4	10	19	69	25	9.6	6.3	31	2.8	2.1
7	.91	2.7	2.4	8.8	20	35	20	7.4	4.6	30	2.7	2.3
8	.77	2.2	2.2	11	16	24	21	6.7	3.5	17	2.5	2.0
9	.71	1.9	2.1	15	11	16	24	11	4.7	12	2.6	1.6
10	.66	2.1	2.1	24	8.5	14	18	11	4.2	10	2.2	1.8
11	.66	1.8	1.9	33	7.6	12	15	8.9	3.1	8.7	3.7	2.4
12	.61	1.7	1.9	44	6.6	11	13	7.6	2.7	8.4	2.4	2.3
13	.62	2.8	1.9	38	5.8	9.8	11	7.0	5.8	8.2	2.1	2.0
14	.67	2.5	1.9	26	5.3	9.4	11	6.5	8.4	7.2	2.3	1.8
15	.67	2.2	1.8	16	4.8	9.2	13	6.7	37	6.5	2.8	2.4
16	.66	3.8	1.7	12	4.5	8.5	11	6.0	36	7.5	2.7	4.2
17	.66	9.8	1.7	9.3	4.6	7.6	10	5.4	27	8.8	2.7	2.4
18	1.2	5.8	1.7	8.0	9.1	7.8	9.6	4.7	12	6.4	2.4	2.0
19	3.5	3.6	1.6	7.0	9.1	8.0	9.2	4.4	8.9	9.9	2.1	1.8
20	1.1	7.4	1.7	6.3	13	8.4	8.7	7.8	24	10	1.9	1.8
21	1.5	8.3	1.8	5.4	46	17	8.5	6.6	86	9.6	1.8	2.7
22	1.4	5.5	1.7	4.7	38	13	8.1	5.1	59	10	1.6	13
23	1.2	3.5	2.2	4.7	19	17	7.9	6.1	46	7.5	1.6	7.7
24	1.1	2.7	5.8	4.4	11	21	7.2	4.7	32	6.6	1.8	3.8
25	1.0	2.4	10	4.0	9.2	16	7.1	4.1	17	5.8	2.0	13
26	1.1	2.1	6.2	4.1	8.5	13	6.7	3.9	12	5.7	2.8	15
27	1.2	12	4.5	5.0	15	11	6.4	4.9	10	5.3	6.7	5.8
28	1.5	12	5.3	4.0	88	10	6.2	4.1	9.1	4.6	3.0	14
29	1.5	8.4	5.2	3.7	---	9.7	6.1	3.3	9.3	4.0	2.5	27
30	1.5	6.2	7.8	5.3	---	11	6.1	3.1	8.9	3.7	2.8	55
31	2.2	---	24	4.7	---	9.5	---	2.9	---	4.0	2.9	---
TOTAL	68.40	138.8	121.0	409.4	404.4	609.9	362.8	201.1	496.0	305.0	90.6	200.2
MEAN	2.21	4.63	3.90	13.2	14.4	19.7	12.1	6.49	16.5	9.84	2.92	6.67
MAX	19	12	24	44	88	106	33	11	86	31	7.3	55
MIN	.61	1.7	1.6	3.7	3.6	7.6	6.1	2.9	2.6	3.7	1.6	1.5
CFSM	.35	.72	.61	2.06	2.25	3.08	1.89	1.01	2.58	1.54	.46	1.04
IN.	.40	.81	.70	2.38	2.35	3.54	2.11	1.17	2.88	1.77	.53	1.16

CAL YR 1988 TOTAL 1557.97 MEAN 4.26 MAX 122 MIN .16 CFSM .67 IN 9.05
WTR YR 1989 TOTAL 3407.60 MEAN 9.34 MAX 106 MIN .61 CFSM 1.46 IN 19.80

02382000 SCARECORN CREEK AT HINTON, GA.

LOCATION.–Lat 34°28'34", long 84°35'28", Pickens County, Hydrologic Unit 03150102, on left bank, 100 ft upstream from bridge on State Highway 53, 0.6 mi southwest of Hinton, and 5 mi upstream from Talking Rock Creek, and 8.5 mi west of Jasper.

DRAINAGE AREA.–21.1 mi^2.

PERIOD OF RECORD.–April 1939 to December 1943, May 1959 to September 1974, August 1986 to current year.

GAGE.–Water-stage recorder. Elevation of gage is 1,060 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.–No estimated daily discharges. Records good. Peak flow regulated by Soil Conservation Service flood-retention reservoir since 1961.

AVERAGE DISCHARGE.–21 years (water years 1940-1942, 1960-1974, 1987-1989), 27.5 ft^3/s, 17.70 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum gage height, 11.2 ft, Feb. 16, 1942 (discharge not determined); minimum daily discharge, 0.45 ft^3/s, Sept. 2, 1988.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge at 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 4	2330	*962	*5.59	Sept. 30	2100	860	5.07

Minimum daily discharge, 3.1 ft^3/s, Oct. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	6.0	10	87	15	102	24	29	12	26	18	9.5
2	37	4.9	8.8	44	14	63	23	27	12	22	23	10
3	19	4.5	7.9	85	14	46	23	21	14	31	18	9.2
4	10	4.7	7.6	66	13	128	79	19	14	30	16	8.1
5	6.0	20	7.1	37	36	344	160	30	15	35	14	7.7
6	4.7	11	7.0	36	63	192	73	32	18	101	14	8.7
7	4.1	7.4	6.9	29	63	96	71	23	15	99	13	9.5
8	3.8	6.8	6.5	44	46	65	82	22	14	44	12	9.0
9	3.7	6.3	6.6	57	31	47	79	37	16	33	12	8.1
10	3.7	6.0	6.5	95	25	40	57	35	14	28	12	8.1
11	3.6	6.3	6.3	182	22	36	47	26	13	24	13	8.8
12	3.4	5.5	6.1	121	20	34	38	23	12	24	12	8.6
13	3.1	6.6	6.0	121	18	31	33	22	19	23	11	7.9
14	3.2	6.5	5.9	70	17	30	31	21	34	21	11	7.5
15	3.2	6.1	5.9	47	16	29	38	21	136	19	12	8.4
16	3.3	9.6	5.8	35	15	27	34	19	242	22	12	12
17	3.2	20	5.7	28	16	24	31	17	95	24	12	9.1
18	4.0	11	5.6	24	30	24	27	16	41	19	11	8.1
19	9.6	8.6	5.5	21	30	25	26	15	31	27	10	7.7
20	5.0	17	5.8	19	36	27	25	24	72	29	10	7.5
21	5.5	16	5.9	17	145	54	24	21	187	25	9.7	8.8
22	5.3	11	6.1	16	75	40	23	17	154	25	9.3	28
23	4.6	9.4	7.1	15	41	54	22	20	106	22	9.1	18
24	4.3	9.1	16	14	25	58	22	16	68	19	10	12
25	4.0	7.7	27	14	20	43	21	15	47	76	10	34
26	4.0	7.2	13	14	18	36	20	15	36	43	11	38
27	4.1	23	10	16	59	31	19	16	29	26	17	19
28	4.0	24	11	14	325	29	19	15	28	22	11	102
29	4.2	15	11	13	—	27	19	14	26	20	9.8	81
30	4.0	12	23	18	—	30	19	13	27	17	10	287
31	4.3	—	83	16	—	27	—	13	—	17	11	—
TOTAL	185.1	309.2	346.6	1415	1248	1839	1209	654	1547	993	383.9	801.3
MEAN	5.97	10.3	11.2	45.6	44.6	59.3	40.3	21.1	51.6	32.0	12.4	26.7
MAX	37	24	83	182	325	344	160	37	242	101	23	287
MIN	3.1	4.5	5.5	13	13	24	19	13	12	17	9.1	7.5
CFSM	.28	.48	.53	2.14	2.09	2.78	1.89	.99	2.42	1.50	.58	1.25
IN.	.32	.54	.61	2.47	2.18	3.21	2.11	1.14	2.70	1.73	.67	1.40

CAL YR 1988	TOTAL	4262.35	MEAN	11.6	MAX	318	MIN	.45	CFSM	.55	IN	7.44
WTR YR 1989	TOTAL	10931.10	MEAN	29.9	MAX	344	MIN	3.1	CFSM	1.40	IN	19.09

02382200 TALKING ROCK CREEK NEAR HINTON, GA.

LOCATION.--Lat 34°31'22", long 84°36'40", Pickens County, Hydrologic Unit 03150102, on left bank, 300 ft downstream from Scarecorn Creek, and 3.3 mi northwest of Hinton.
DRAINAGE AREA.--119 mi^2.
PERIOD OF RECORD.--November 1973 to current year.
REVISED RECORDS.--WDR GA-80-1: Drainage area.
GAGE.--Water-stage recorder. Elevation of gage is 890 ft above National Geodetic Vertical Datum of 1929 (from topographic map).
REMARKS.--No estimated discharges. Records fair.
AVERAGE DISCHARGE.--15 years (water years 1975-89), 183 ft^3/s, 20.88 in/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,100 ft^3/s, Mar. 4, 1979, gage height, 14.18 ft; minimum daily discharge, 6.1 ft^3/s, July 11, 1988.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 28, 1973, reached a stage of 15.45 ft, from floodmarks; discharge 18,400 ft^3/s from rating curve extended about 3,100 ft^3/s on basis of slope-area measurements at gage heights 8.66 and 15.45 ft.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 5	0045	2,790	6.23	Sept. 30	2230	*4,980	*8.59

Minimum daily discharge, 17 ft^3/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	37	56	393	95	523	180	201	93	192	128	87
2	158	35	49	178	91	335	172	189	92	182	293	89
3	96	33	44	219	90	266	190	141	98	247	148	82
4	66	32	41	190	90	316	419	130	102	372	131	77
5	47	80	39	126	147	1320	824	223	106	360	124	75
6	39	73	38	125	330	914	442	252	158	649	120	83
7	36	52	37	111	306	467	455	161	117	561	115	85
8	34	47	36	136	240	338	574	143	108	329	112	82
9	33	47	36	162	180	273	602	227	130	290	110	79
10	32	43	35	301	151	242	406	233	121	262	109	77
11	31	42	34	773	138	221	331	181	103	218	110	83
12	31	39	33	640	127	208	288	155	98	209	108	80
13	29	41	32	634	120	194	260	140	154	208	106	76
14	28	43	31	346	111	186	240	136	155	193	113	76
15	29	40	32	249	105	178	265	138	826	175	179	81
16	30	43	31	192	101	217	228	126	1230	185	126	100
17	28	123	30	157	102	177	204	119	646	203	113	83
18	29	66	29	140	149	171	192	113	317	169	107	78
19	59	48	32	127	161	168	181	110	241	197	102	76
20	40	77	30	116	184	179	172	162	409	221	99	74
21	37	82	30	106	778	308	165	139	975	200	97	80
22	40	58	31	101	409	252	158	124	913	200	94	238
23	36	48	33	97	255	390	151	158	607	183	92	137
24	34	43	44	93	194	424	147	129	377	164	94	104
25	32	39	75	90	164	304	141	118	322	237	95	304
26	32	37	58	90	153	253	136	112	306	264	93	317
27	31	83	44	101	270	228	133	127	237	162	121	137
28	31	97	47	91	1560	213	132	115	214	141	99	336
29	33	72	55	86	---	199	131	104	210	133	93	576
30	31	60	68	105	---	211	128	99	202	126	92	1500
31	31	---	335	104	---	195	---	97	---	124	95	---
TOTAL	1260	1660	1545	6379	6801	9870	8047	4602	9667	7356	3618	5352
MEAN	40.6	55.3	49.8	206	243	318	268	148	322	237	117	178
MAX	158	123	335	773	1560	1320	824	252	1230	649	293	1500
MIN	17	32	29	86	90	168	128	97	92	124	92	74
CFSM	.34	.47	.42	1.73	2.04	2.67	2.25	1.24	2.71	1.99	.98	1.50
IN.	.39	.52	.48	1.99	2.13	3.09	2.52	1.44	3.02	2.30	1.13	1.67

CAL YR 1988	TOTAL	23910.5	MEAN	65.3	MAX	1210	MIN	6.1	CFSM	.55	IN	7.47
WTR YR 1989	TOTAL	66157.0	MEAN	181	MAX	1560	MIN	17	CFSM	1.52	IN	20.68

02382500 COOSAWATTEE RIVER AT CARTERS, GA.

LOCATION.–Lat 34°36'13", long 84°41'44", Murray County, Hydrologic Unit 03150102, on downstream side of center bridge pier on U.S. Highway 411 at Carters, 200 ft upstream from Louisville & Nashville Railroad bridge, 0.4 mi downstream from Carters re-regulation dam, and 0.6 mi downstream from Talking Rock Creek.

DRAINAGE AREA.–521 mi^2.

PERIOD OF RECORD.–September 1896 to December 1908, October 1918 to September 1923, October 1961 to September 1972, October 1974 to current year. Monthly discharge only for October to November 1918 published in WSP 1304.

REVISED RECORDS.–WDR GA-80-1: Drainage area.

GAGE.–Water-stage recorder. Datum of gage is 650.67 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to September 1923, nonrecording gage at site 0.4 mi upstream at datum 2.00 ft higher.

REMARKS.–No estimated daily discharges. Records good. Flow regulated by Carters Lake and Carters re-regulation dam since November 1974. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.–42 years (water years 1897-1908, 1919-23, 1962-71, 1975-89), 1 172 ft^3/s, 30.55 in/yr, adjusted for storage since 1975.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge observed, 28,500 ft^3/s Nov. 19, 1906, gage height, 30.6 ft, present datum; minimum daily, 122 ft^3/s, regulated Nov. 15, 1974; minimum discharge observed prior to regulation, 184 ft^3/s several days during September to November 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.–Flood of Mar. 29 or 30, 1951, reached a stage of about 36 ft, from floodmarks, discharge 57,000 ft^3/s, from rating curve extended above 24,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, 4,940 ft^3/s, Mar. 11, gage height, 12.89 ft; minimum daily discharge, 252 ft^3/s, Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	332	316	276	310	557	2040	727	937	791	2260	1440	1090
2	326	314	284	316	544	2460	594	1230	725	2170	1350	1060
3	328	319	272	447	512	3000	719	383	420	2190	1260	1040
4	341	320	277	958	544	2120	825	625	373	2180	1230	1030
5	328	308	281	1070	546	2010	819	1080	633	2720	1160	946
6	337	288	290	1080	827	1760	1350	1190	942	3000	1190	705
7	336	282	293	839	1220	1050	2490	1200	916	2840	1170	561
8	338	284	310	645	1410	1140	2470	1530	904	2140	1160	545
9	331	284	300	885	1530	1960	2420	2390	973	2100	994	539
10	327	286	298	1020	1470	2420	2830	2200	927	2350	923	511
11	331	292	289	1020	1110	4130	3450	2180	908	2500	887	527
12	345	283	301	1570	965	4070	3530	2030	896	2500	741	511
13	356	286	305	2050	1170	3300	3420	1480	927	2370	735	497
14	487	252	302	2070	1340	3060	2330	1230	877	1760	735	522
15	431	271	288	2280	1350	2770	1120	1250	868	1120	705	535
16	338	276	287	2130	1380	2170	923	1280	1150	1030	696	523
17	341	274	290	2040	1040	1710	968	1190	1300	1140	700	514
18	340	307	291	1920	739	830	1020	1020	908	1240	679	502
19	322	293	277	1680	703	643	1050	749	1280	1260	663	461
20	341	299	279	1160	833	676	1050	429	1560	1230	670	421
21	346	269	274	749	1340	841	1050	415	1580	1110	655	472
22	329	288	295	735	1560	1180	1070	428	1610	844	685	494
23	334	294	301	676	1920	1350	1110	816	1590	836	666	480
24	326	273	285	751	1860	1470	1160	1160	1790	913	652	416
25	329	269	281	717	1530	1500	1230	1140	3100	1150	581	643
26	320	271	270	701	1560	1480	1290	1070	3870	1280	480	826
27	329	290	284	696	1420	1810	1350	902	3930	1320	489	615
28	341	292	285	550	1530	2240	1300	868	3910	1340	582	784
29	334	301	292	537	---	2250	868	772	3960	1320	906	1090
30	318	302	299	526	---	2230	816	759	3580	1180	1050	1550
31	309	---	314	532	---	1790	---	796	---	1310	1050	---
TOTAL	10571	8683	8970	32660	32510	61460	45349	34729	47198	52703	26884	20410
MEAN	341	289	289	1054	1161	1983	1512	1120	1573	1700	867	680
MAX	487	320	314	2280	1920	4130	3530	2390	3960	3000	1440	1550
MIN	309	252	270	310	512	643	594	383	373	836	480	416
MEAN†	297	536	375	1194	1307	1805	1520	1121	1963	1416	792	1061
CFSM†	.57	1.03	.72	2.29	2.51	3.46	2.92	2.15	3.77	2.72	1.52	2.04
IN.†	.66	1.15	.83	2.64	2.61	3.99	3.26	2.48	4.21	3.14	1.75	2.28

CAL YR 1988	TOTAL	146309	MEAN	400	MAX	1660	MIN	252	MEAN†	456	CFSM† .88	IN† 11.95
WTR YR 1989	TOTAL	382127	MEAN	1047	MAX	4130	MIN	252	MEAN†	1112	CFSM† 2.13	IN† 28.93

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.

LOCATION.--Lat 34°33'51", long 84°49'59", Gordon County, Hydrologic Unit 03150102, on right bank at downstream side of Owens Bridge on Owens Gin Road (revised), 1.4 mi downstream from Sallacoa Creek, 8.7 mi upstream from confluence with Conasauga River, and 2.4 mi east of Pine Chapel.

DRAINAGE AREA.--831 mi^2.

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1976, published as Coosawattee River at Pine Chapel, Ga. Monthly discharge only for October to November 1938, published in WSP 1304.

REVISED RECORDS.--WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 616.16 above ft National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Since October 1, 1976, auxiliary water-stage recorder at highway bridge 2.2 mi downstream. Prior to Feb. 23, 1940, nonrecording gage at current auxiliary gage site and same datum. Feb. 23, 1940, to April 8, 1975, water-station recorder at current auxiliary gage site and same datum. Feb. 23, 1940, to April 8, 1975 auxiliary water-stage recorder at current gage site. April 9, 1975, to Sept. 30, 1976, water-stage recorder on Oostanaula River at Resaca used as auxiliary gage, due to bridge construction.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Carters Lake and Carters Re-regulation Dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.

AVERAGE DISCHARGE.--51 years, 1,468 ft^3/s, 23.99 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,200 ft^3/s, Mar. 30, 1951, gage height, 34.2 ft at current base gage, 30 ft at current auxiliary gage; minimum daily discharge, 188 ft^3/s, Sept. 11, 1976, minimum unregulated daily discharge, 220 ft^3/s, Oct. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1938, reached a stage of 30.0 ft from gage reading at current auxiliary gage discharge 34,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,990 ft^3/s, Mar. 6, gage height, 23.94 ft; minimum daily discharge, 347 ft^3/s, Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	370	392	527	2190	800	6400	1540	1430	1010	3130	2040	1490
2	443	390	478	1250	797	3990	1100	1910	1010	2650	1940	1430
3	499	409	452	1420	746	4080	1170	1100	683	2700	1740	1400
4	445	410	445	2320	743	3440	2360	720	574	3050	1670	1340
5	383	870	431	1750	1070	6610	4090	2090	647	3190	1570	1300
6	383	590	435	1670	2130	8680	3180	3590	1330	3890	1570	1090
7	368	457	451	1510	2530	5520	4040	1990	1290	4220	1560	744
8	364	415	438	1350	2490	2610	4160	1810	1200	3120	1520	765
9	356	410	441	1540	2230	2830	4290	2770	1260	2720	1400	708
10	347	404	433	2560	2000	3030	3830	2980	1270	2730	1190	694
11	350	411	442	3300	1670	4160	4150	2840	1160	2930	1210	699
12	357	392	433	5090	1410	4450	4060	2590	1140	2910	1020	714
13	367	423	430	5100	1380	3960	3990	2050	1230	2900	954	651
14	403	397	432	4430	1670	3510	3300	1650	1310	2400	953	671
15	607	398	419	3470	1650	3440	2080	1600	2680	1710	937	751
16	365	473	393	3250	1670	2830	1600	1610	3540	1460	918	926
17	349	1120	411	2750	1540	2400	1490	1570	3680	1540	923	784
18	357	668	415	2520	1080	1480	1490	1360	1730	1660	896	717
19	389	521	388	2210	1290	1030	1520	1240	1860	1670	874	692
20	372	1120	403	1780	1320	1040	1480	774	4870	1830	844	581
21	403	1060	379	1190	3430	1620	1480	794	5130	1700	833	619
22	392	646	405	1110	4270	1790	1470	682	4860	1340	868	746
23	390	557	423	982	3090	2620	1480	864	4690	1330	862	832
24	385	483	433	1020	2650	3330	1520	1470	3320	1250	836	706
25	392	450	537	1030	2160	2620	1560	1430	3640	1500	836	884
26	383	430	517	979	1990	2260	1620	1430	4350	1980	674	2450
27	386	717	449	992	2230	2220	1640	1160	4350	1830	897	1370
28	397	1060	451	888	6080	2740	1660	1160	4320	1760	769	1380
29	418	731	456	748	—	2780	1340	1030	4400	1740	1030	3860
30	392	615	514	804	—	2810	1140	992	4210	1610	1500	5010
31	381	—	1650	843	—	2600	—	999	—	1730	1550	—
TOTAL	12193	17419	14911	62046	56116	102880	69830	49685	76744	70180	36384	36004
MEAN	393	581	481	2001	2004	3319	2328	1603	2558	2264	1174	1200
MAX	607	1120	1650	5100	6080	8680	4290	3590	5130	4220	2040	5010
MIN	347	390	379	748	743	1030	1100	682	574	1250	674	581

CAL YR 1988	TOTAL	216342	MEAN	591	MAX	3400	MIN	302	MEAN†	647	CFSM† .78	IN.† 10.59
WTR YR 1989	TOTAL	604392	MEAN	1656	MAX	8680	MIN	347	MEAN†	1721	CFSM† 2.07	IN.† 28.11

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02383540 COOSAWATTEE RIVER NEAR CALHOUN, GA.

LOCATION.–Lat 34°32'28", long 84°54'03", Gordon County, Hydrologic Unit 03150102, at bridge on State Highway 225, 0.2 mi upstream from confluence with Conasauga River, and 4.0 mi northeast of Calhoun.

DRAINAGE AREA.–861 mi^2.

PERIOD OF RECORD.–August 1974 to current year.

REVISED RECORDS.–WDR GA-80-1: Drainage area.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Carters Lake and Carters reregulatation reservoir (see "Lakes and Reservoirs in Mobile River Basin", stations 02381400 and 02382400). Discharge obtained from gaging station 02383500, Coosawattee River near Pine Chapel, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
26...	0920	386	78	76	7.10	7.30	13.5	15.0	8.8	86
NOV										
29...	1015	740	119	116	--	7.50	10.5	10.0	9.2	83
JAN										
25...	0950	1030	81	85	--	7.30	8.0	8.5	11.1	95
MAR										
29...	1015	2740	57	56	7.00	7.00	13.0	25.0	9.9	96
MAY										
23...	0850	765	96	87	7.10	7.40	19.0	23.0	8.8	97
JUL										
25...	0915	1480	75	75	7.30	7.20	24.0	25.0	6.9	--
SEP										
26...	1200	2550	104	106	7.50	7.30	18.0	21.0	8.0	86

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS TOTAL (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
26...	3.0	1.5	170	33	26	0.140	<0.030	0.030	1.4
NOV									
29...	26	1.5	1700	42	41	0.240	0.070	0.120	4.1
JAN									
25...	5.0	1.5	50	33	30	0.430	<0.030	0.100	3.0
MAR									
29...	12	2.1	130	18	18	0.380	0.200	0.710	2.9
MAY									
23...	8.0	0.7	--	33	34	0.330	<0.030	0.060	2.2
JUL									
25...	10	1.1	220	--	26	0.190	0.030	0.080	2.2
SEP									
26...	130	1.9	4900	40	36	0.470	0.040	0.180	--

02384500 CONASAUGA RIVER NEAR ETON, GA.

LOCATION.--Lat 34°49'40", long 84°51'03", Murray-Whitfield County line, Hydrologic Unit 03150101, at downstream side of right bank pier of bridge on State Highway 286, 3.4 mi upstream from Mill Creek, 5.2 mi west of Eton, and at mile 42.7.

DRAINAGE AREA.--252 mi^2.

PERIOD OF RECORD.--Water years 1954-58, 1963-81 (annual maximum), October 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 672.64 ft above National Geodetic Vertical Datum of 1929. June 26, 1953, to September 30, 1958 and August 16, 1962 to September 30, 1981, crest-stage gage at site 75 ft downstream at datum 3.00 ft higher.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--8 years (1982-89), 426 ft^3/s, 22.96 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,200 ft^3/s, Mar. 17, 1973, gage height, 18.59 ft, present datum; minimum discharge, 23 ft^3/s, July 11, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 10,100 ft^3/s, Sept. 30, stage rising, peak occurred on Oct. 1, 1989; peak discharges greater than a base discharge of 3,800 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 14	0800	3,950	11.30	June 17	1900	6,440	12.98
Mar. 1	0500	7,140	13.33	June 21	1700	5,590	12.52
Mar. 7	0800	5,380	12.39				

Minimum discharge, 53 ft^3/s, Oct. 17, gage height, 2.28 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	79	406	1890	352	5960	490	372	212	426	197	339
2	121	86	334	1090	331	1680	428	463	212	389	232	253
3	237	82	288	697	312	947	414	364	252	387	217	216
4	161	95	258	540	314	816	1100	320	217	613	181	227
5	128	1090	232	407	546	2180	2980	673	242	516	165	233
6	107	1100	211	452	1790	3710	1230	3020	376	667	157	183
7	93	494	197	464	2950	4640	1830	1530	418	575	150	167
8	84	331	187	902	1660	1500	1750	633	337	526	143	154
9	79	283	181	1190	889	939	1590	469	514	422	135	140
10	74	245	180	1440	677	776	1080	1640	671	363	134	130
11	70	266	167	1370	582	681	833	990	463	334	131	129
12	66	255	156	2050	514	616	695	653	350	403	127	141
13	61	260	148	2940	457	562	609	493	397	567	123	143
14	57	274	143	3460	419	520	543	416	461	366	121	148
15	55	230	139	1340	384	519	619	377	1310	301	138	222
16	56	222	132	940	356	722	561	343	3560	268	198	401
17	55	509	127	741	368	575	475	316	5880	258	150	220
18	57	578	123	629	602	521	435	299	3700	235	134	156
19	79	396	118	547	855	539	411	282	1050	219	129	136
20	124	847	116	488	812	518	387	340	2230	244	120	123
21	92	1220	115	434	1920	829	370	412	4930	271	114	120
22	87	647	114	393	2660	966	352	303	3330	453	110	455
23	102	432	133	368	1040	967	339	528	1290	948	107	1180
24	86	346	172	349	756	1180	325	409	948	734	116	638
25	80	296	262	328	617	903	310	330	736	385	507	660
26	78	256	218	312	555	735	298	296	636	302	342	1940
27	75	567	185	332	820	624	288	288	565	272	223	943
28	75	1180	173	315	4470	545	283	285	472	234	166	554
29	76	834	241	290	---	494	301	249	472	215	148	3010
30	77	535	286	369	---	545	289	233	430	203	326	7620
31	76	---	1640	413	---	581	---	222	---	209	720	---
TOTAL	2739	14035	7382	27480	28008	37290	21615	17568	36661	12305	5961	20981
MEAN	88.4	468	238	886	1000	1203	721	567	1222	397	192	699
MAX	237	1220	1640	3460	4470	5960	2980	3020	5880	948	720	7620
MIN	55	79	114	290	312	494	283	222	212	203	107	120
CFSM	.35	1.86	94	3.52	3.97	4.77	2.86	2.25	4.85	1.58	.76	2.77
IN.	.40	2.07	1.09	4.06	4.13	5.50	3.19	2.59	5.41	1.82	88	3.10

CAL YR 1988	TOTAL	75858	MEAN	207	MAX	3530	MIN	24	CFSM	82	IN	11.20
WTR YR 1989	TOTAL	232025	MEAN	636	MAX	7620	MIN	55	CFSM	2.52	IN	34.25

02384540 MILL CREEK NEAR CRANDALL, GA.

LOCATION.--Lat 34°52'19", long 84°43'17", Murray County, Hydrologic Unit 03150101, on right bank 100 ft south of Forest Service Road 630 2.1 mi from Crandall, 1.3 mi upstream from Cohorn Creek, and 1.4 mi northeast of Crandall.
DRAINAGE AREA.--8.27 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1985 to current year.
GAGE.--Water-stage recorder. Datum of gage is 888.98 ft above National Geodetic Vertical Datum of 1929.
REMARKS.--Estimated daily discharges: Jan. 6-Feb. 3. Records fair, except those for the period affected by beaverdams, Oct. 2 to Nov. 22, Dec. 6 to Jan. 6, July 18 to Sept. 30, and those for the periods of estimated daily discharges, which are fair to poor.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 894 ft³/s, Sept. 30, 1989, gage height, 4.95 ft; minimum daily discharge, 0.55 ft³/s, Oct. 10, 1987.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 5	0515	321	3.68	June 16	1530	448	3.92
Feb. 28	0515	544	4.18	June 20	0915	687	4.52
Mar. 6	0530	305	3.47	Sept. 29	1515	355	3.64
May 5	1815	362	3.66	Sept. 30	2215	*894	*4.95

Minimum daily discharge, 2.4 ft³/s, Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	4.2	25	128	13	93	17	16	7.2	18	15	12
2	11	3.4	19	68	12	54	16	13	8.4	16	13	9.0
3	6.7	3.1	17	38	10	40	16	11	7.8	17	11	13
4	4.9	31	15	23	10	37	57	9.9	7.7	24	11	20
5	3.7	174	13	20	34	93	81	109	17	19	10	14
6	3.3	46	12	30	97	201	45	99	25	32	8.3	12
7	2.5	23	13	27	103	88	66	42	22	35	7.8	10
8	2.4	18	13	57	58	53	76	30	24	28	5.6	8.9
9	2.7	15	12	54	35	39	76	31	48	23	5.8	7.4
10	2.6	15	9.0	72	26	33	49	50	44	19	6.1	7.5
11	3.0	17	8.5	92	21	30	37	38	27	19	6.4	7.2
12	2.3	16	8.1	142	18	27	29	29	20	20	6.4	7.0
13	2.9	19	8.3	136	15	26	25	23	29	19	6.4	6.3
14	3.1	16	8.3	92	14	28	21	20	26	23	6.6	7.0
15	3.1	14	8.0	55	13	30	24	17	114	20	8.6	11
16	3.2	29	7.6	38	12	30	19	15	252	20	6.3	13
17	3.4	89	8.3	30	16	25	17	13	133	19	6.8	6.9
18	4.3	38	7.9	24	26	19	16	12	57	18	7.2	6.0
19	6.7	25	8.5	20	35	17	16	11	41	17	7.0	4.4
20	3.7	81	8.2	18	40	18	15	20	295	19	6.9	4.6
21	4.6	66	8.2	17	136	31	14	14	143	38	7.6	5.2
22	4.1	34	8.0	16	73	31	13	14	95	34	8.4	33
23	4.3	21	9.7	15	44	37	12	16	57	30	9.3	31
24	4.1	17	9.1	14	30	47	11	13	41	28	13	17
25	4.0	13	8.9	13	24	39	11	12	33	23	9.8	26
26	3.7	11	8.3	12	22	35	10	11	45	19	8.3	35
27	3.7	40	8.3	14	43	30	9.6	13	34	17	10	14
28	3.7	81	9.7	12	294	26	11	11	26	14	8.3	8.2
29	3.5	46	8.3	12	---	24	10	9.0	22	13	8.9	271
30	3.9	33	29	16	---	27	9.6	8.2	19	16	54	333
31	4.5	---	138	15	---	23	---	7.7	---	15	21	---
TOTAL	124.2	1038.7	475.2	1320	1274	1331	829.2	737.8	1720.1	672	320.8	960.6
MEAN	4.01	34.6	15.3	42.6	45.5	42.9	27.6	23.8	57.3	21.7	10.3	32.0
MAX	11	174	138	142	294	201	81	109	295	38	54	333
MIN	2.4	3.1	7.6	12	10	17	9.6	7.7	7.2	13	5.6	4.4
CFSM	.49	4.18	1.85	5.15	5.50	5.19	3.34	2.88	6.93	2.62	1.25	3.87
IN.	.56	4.67	2.14	5.94	5.73	5.99	3.73	3.32	7.74	3.02	1.44	4.32

CAL YR 1988	TOTAL	4494.45	MEAN	12.3	MAX	174	MIN	68	CFSM	1.49	IN	20.21
WTR YR 1989	TOTAL	10803.60	MEAN	29.6	MAX	333	MIN	2.4	CFSM	3.58	IN	48.59

02384748 CONASAUGA RIVER NEAR DALTON, GA.

LOCATION.--Lat 34°47'20", long 84°52'30", Whitfield-Murray County line, Hydrologic Unit 03150101, at Dalton waterworks intake, 0.4 mi upstream from U.S. Highway 76, and 5.5 mi east of Dalton.

DRAINAGE AREA.--308 mi^2.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
26...	1220	31	107	106	7.40	7.40	12.0	21.0	8.6	81
NOV										
29...	1450	800	74	75	7.40	7.20	9.5	19.5	10.0	89
DEC										
27...	1220	155	115	120	7.40	7.60	8.5	16.0	10.4	90
JAN										
25...	1200	330	120	124	7.30	7.50	7.0	13.0	11.0	92
FEB										
27...	1230	670	107	100	7.20	7.50	8.0	10.0	10.2	89
MAR										
29...	1215	610	105	103	7.52	7.30	16.5	26.0	9.7	101
APR										
25...	1120	275	117	118	7.60	7.50	20.0	27.5	7.8	87
MAY										
23...	1110	860	115	117	7.40	7.40	20.5	25.0	7.7	88
JUN										
28...	1150	600	99	94	7.20	7.30	23.0	28.0	6.8	81
JUL										
25...	1245	550	114	112	7.30	7.40	24.0	30.0	6.8	--
AUG										
29...	1140	100	113	117	7.40	7.40	25.5	31.0	6.1	76
SEP										
27...	0630	2500	76	76	7.10	6.90	17.0	16.0	8.1	86

02384748 CONASAUGA RIVER NEAR DALTON, GA.–Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS TOTAL (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT							
26...	6.0	--	1.6	20	54	45	5
NOV							
29...	17	--	1.4	280	24	30	6
DEC							
27...	12	--	1.6	230	--	48	3
JAN							
25...	3.0	--	1.9	110	66	54	15
FEB							
27...	15	--	0.8	230	45	41	10
MAR							
29...	8.0	--	1.7	40	45	44	13
APR							
25...	6.0	--	0.5	--	54	51	9
MAY							
23...	64	--	1.7	--	51	59	61
JUN							
28...	11	--	0.6	130	--	38	14
JUL							
25...	26	--	0.7	460	--	48	29
AUG							
29...	13	12	--	1400	60	48	13
SEP							
27...	96	30	2.8	3300	34	30	--

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
26...	0.030	<0.030	--	--	--	0.060	2.2
NOV							
29...	0.180	0.310	--	--	--	0.100	9.6
DEC							
27...	0.190	0.040	--	--	--	0.060	3.0
JAN							
25...	0.480	<0.030	--	--	--	0.070	1.9
FEB							
27...	0.590	<0.030	--	--	--	0.100	2.6
MAR							
29...	--	--	--	--	--	0.070	3.1
APR							
25...	0.360	<0.030	--	--	--	0.100	4.1
MAY							
23...	0.300	<0.030	--	--	--	0.100	6.0
JUN							
28...	0.400	<0.030	--	--	--	0.070	1.5
JUL							
25...	0.230	0.060	--	--	--	0.090	7.1
AUG							
29...	0.230	0.120	0.18	0.30	0.53	0.020	3.7
SEP							
27...	0.200	0.060	1.3	1.4	1.6	0.170	--

02385800 HOLLY CREEK NEAR CHATSWORTH, GA.

LOCATION.--Lat 34°43'00", long 84°46'12", Murray County, Hydrologic Unit 03150101, on right bank 100 ft upstream from bridge on county road 48, 3 mi upstream from Rock Creek, and 3.3 mi south of Chatsworth.
DRAINAGE AREA.--64.0 mi².
PERIOD OF RECORD.--June 1960 to current year.
REVISED RECORDS.--WRD GA-80-1: Drainage area.
GAGE.--Water-stage recorder. Elevation of gage is 690 ft above National Geodetic Vertical Datum of 1929 (from topographic map).
REMARKS.--Estimated daily discharges: Nov. 6-23. Records good, except those for the period of estimated daily discharges, which are fair. Low flow affected by withdrawals and return flow by the city of Chatsworth. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.
AVERAGE DISCHARGE.--29 years, 120 ft³/s, 25.46 in/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,110 ft³/s, Mar. 4, 1979, gage height, 12.54 ft; minimum daily discharge, 1.2 ft³/s, Oct. 10, 1987.
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 28	1600	2,980	9.60	June 5	2400	1,720	8.67
Mar. 6	1700	2,850	9.51	June 17	0500	3,110	9.69
Apr. 5	0700	1,610	8.59	June 20	2200	*4,260	*10.40
May 6	1000	1,840	8.76	Sept. 29	2200	2,510	9.26

Minimum daily discharge, 9.0 ft³/s, Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	16	95	562	82	1080	103	134	39	107	41	51
2	59	16	80	221	75	389	94	121	40	98	42	44
3	39	14	68	182	70	252	114	81	43	97	37	36
4	26	26	62	138	68	229	539	69	42	136	34	40
5	18	442	56	106	294	1120	1230	405	504	109	31	31
6	16	270	52	164	757	2030	411	1350	679	160	30	29
7	13	110	49	138	816	1030	656	281	130	149	30	30
8	12	100	45	408	436	433	645	154	108	110	27	27
9	13	90	43	380	210	268	669	137	325	91	26	24
10	11	80	42	506	153	204	348	158	217	82	25	24
11	11	85	39	620	130	169	227	129	122	74	24	25
12	9.9	75	37	1100	114	147	179	109	91	74	23	24
13	9.3	95	35	1050	100	130	153	94	175	77	22	21
14	9.4	95	34	686	91	120	134	87	147	68	25	21
15	9.0	90	33	346	84	111	174	82	882	61	41	21
16	9.7	85	31	221	79	161	133	74	2170	58	39	47
17	9.1	180	30	164	100	113	113	68	2350	59	28	27
18	10	420	29	137	190	103	103	63	579	51	26	22
19	55	140	28	119	284	96	98	60	283	54	23	20
20	22	370	27	107	265	95	91	93	2220	63	21	18
21	16	315	26	93	957	276	86	74	2440	102	20	19
22	23	200	28	85	769	201	81	62	1160	101	19	153
23	17	110	35	80	283	323	76	115	492	112	23	139
24	14	85	44	76	185	391	72	75	277	73	27	68
25	13	71	41	71	148	234	68	61	216	59	31	142
26	11	62	33	69	133	171	65	56	198	72	34	364
27	11	196	30	87	320	139	61	58	152	53	76	115
28	12	404	35	70	2330	121	63	52	134	47	33	87
29	13	179	54	65	---	109	63	46	131	44	25	1610
30	13	121	78	101	---	149	56	43	116	41	168	1830
31	13	---	594	96	---	122	---	41	---	46	100	---
TOTAL	529.4	4542	1913	8248	9523	10516	6905	4432	16462	2528	1151	5109
MEAN	17.1	151	61.7	266	340	339	230	143	549	81.5	37.1	170
MAX	59	442	594	1100	2330	2030	1230	1350	2440	160	168	1830
MIN	9.0	14	26	65	68	95	56	41	39	41	19	18
CFSM	.27	2.36	.96	4.16	5.31	5.30	3.59	2.23	8.58	1.27	.58	2.66
IN.	.31	2.64	1.11	4.79	5.54	6.11	4.01	2.58	9.57	1.47	.67	2.97

CAL YR 1988	TOTAL	21294.1	MEAN	58.2	MAX	1350	MIN	2.0	CFSM	.91	IN	12.38
WTR YR 1989	TOTAL	71858.4	MEAN	197	MAX	2440	MIN	9.0	CFSM	3.08	IN	41.77

02387000 CONASAUGA RIVER AT TILTON, GA.

LOCATION.--Lat 34°40'00", long 84°55'42", Whitfield-Murray County line, Hydrologic Unit 03150101, on left bank 250 ft downstream from Tilton Road bridge, 0.2 mi downstream from Swamp Creek, 0.5 mi northeast of Tilton, and 12 mi upstream from confluence with Coosawattee River.

DRAINAGE AREA.--687 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1937 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 622.28 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Aug. 24, 1940, nonrecording gage at site 150 ft upstream at same datum. Since Oct. 1, 1979, auxiliary water-stage recorder at Sloan Road bridge, 3.2 mi downstream. Water-stage recorder on Oostanaula River at Resaca used as auxiliary gage during 1961-79 water years.

REMARKS.--No estimated daily discharges. Records good. Flow affected by withdrawals and return flow by the city of Dalton, Ga.

AVERAGE DISCHARGE.--52 years, 1,190 ft^3/s, 23.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft^3/s, Mar. 30, 1951, gage height, 30.2 ft, backwater from the Coosawattee River; minimum daily discharge, 12 ft^3/s, July 24, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 15	1000	7,060	15.94	Apr. 6	1400	6,780	15.30
Feb. 8	1100	6,180	14.29	May 7	1700	5,620	13.37
Feb. 23	0600	6,200	14.47	June 19	0400	10,800	19.50
Mar. 2	1900	*11,100	*20.09	June 23	0400	9,620	18.79
Mar. 7	2300	9,590	19.06				

Minimum daily discharge, 75 ft^3/s, Oct. 15.

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	146	908	4760	745	8950	1430	686	310	1380	538	774
2	454	125	708	4150	644	10800	1080	1110	306	1140	485	522
3	491	129	589	2140	585	8650	954	859	377	1410	483	456
4	369	180	532	1630	557	2820	2390	610	407	3600	454	424
5	269	1390	460	1150	1010	4900	5920	1440	410	3150	387	415
6	212	2660	395	1200	3650	7860	6600	4610	1440	2910	380	361
7	182	1400	355	1440	5540	9240	5170	5460	1740	3590	354	334
8	172	780	339	1590	6070	9230	5480	2750	889	2880	303	295
9	177	594	321	3160	3720	5190	5640	1250	1190	1620	276	281
10	171	494	323	3590	1760	2170	4330	1490	1540	1120	266	278
11	136	459	329	4490	1390	1740	2570	2620	1210	907	256	264
12	103	468	300	5510	1210	1520	1880	1410	791	926	260	254
13	96	521	261	6490	1040	1320	1550	1050	798	1120	269	252
14	81	550	242	6600	896	1150	1330	888	1110	1040	263	303
15	75	491	238	6870	804	1040	1450	792	2550	757	239	407
16	90	431	224	3820	731	1480	1590	686	6240	621	265	1920
17	112	887	217	1980	759	1600	1200	598	8800	570	322	1100
18	97	1330	218	1520	1230	1130	985	540	10200	506	277	590
19	186	946	203	1200	2360	1060	883	493	10200	469	249	328
20	193	1860	176	1080	2360	1020	813	608	6070	489	258	268
21	200	3170	177	944	4300	1780	753	913	7120	571	247	249
22	179	2160	183	838	5780	2500	720	714	9140	1130	210	497
23	166	1070	239	748	5530	2410	688	728	9220	2730	199	1670
24	185	787	341	669	2340	3680	634	1130	4780	2750	206	1820
25	148	641	419	618	1570	3080	563	734	2330	1490	354	1250
26	130	540	520	572	1340	1990	526	541	1660	864	583	3450
27	115	1000	367	620	1740	1550	494	510	1370	695	1330	3480
28	116	2590	312	652	6920	1260	473	506	1270	587	555	1590
29	127	2260	329	586	—	1100	497	461	1400	523	391	4800
30	142	1300	469	653	—	1260	514	392	1210	499	338	7580
31	157	—	2460	916	—	1660	—	334	—	476	860	---
TOTAL	5478	31359	13154	72446	66581	105140	59107	36913	96078	42520	11857	36212
MEAN	177	1045	424	2337	2378	3392	1970	1191	3203	1372	382	1207
MAX	491	3170	2460	6870	6920	10800	6600	5460	10200	3600	1330	7580
MIN	75	125	176	572	557	1020	473	334	306	469	199	249
CFSM	26	1 52	62	3 40	3 46	4 94	2 87	1 73	4 66	2 00	56	1 76
IN	30	1 70	71	3 92	3 61	5 69	3 20	2 00	5 20	2 30	64	1 96

CAL YR 1988	TOTAL	180533	MEAN	493	MAX	7530	MIN	28	CFSM	72	IN	9 78
WTR YR 1989	TOTAL	576845	MEAN	1580	MAX	10800	MIN	75	CFSM	2 30	IN	31 24

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to current year.
pH: October 1975 to current year.
WATER TEMPERATURE: October 1975 to current year.
DISSOLVED OXYGEN: October 1975 to current year.
INSTRUMENTATION.--Water-quality monitor. Specific Conductance, pH, Water Temperature, and Dissolved Oxygen recorded hourly.
REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 646 microsiemens Oct. 26, 1987; minimum recorded, 34 microsiemens Mar. 23, 1980.
pH: Maximum recorded, 10.65 units Feb. 13, 1988; minimum recorded, 6.30 units July 5, 6, 1976.
WATER TEMPERATURE: Maximum recorded, 33.0°C July 21, 1986; minimum recorded, 0.0°C Dec. 19, 20, 1981.
DISSOLVED OXYGEN: Maximum recorded, 15.7 mg/L June 12, 1988; minimum recorded, 0.2 mg/L May 13, 1987.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 277 microsiemens Nov. 3; minimum recorded, 64 microsiemens June 21.
pH: Maximum recorded, 8.70 units Aug. 13; minimum recorded, 6.70 units June 18, Sept. 30.
WATER TEMPERATURE: Maximum recorded, 28.0°C July 29; minimum recorded, 2.1°C Dec. 19.
DISSOLVED OXYGEN: Maximum recorded, 12.9 mg/L Dec. 19, 20; minimum recorded, 4.6 mg/L July 29.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
26...	1100	132	221	223	7.50	7.60	12.5	18.0	8.7	83
NOV										
29...	1140	2320	119	117	7.30	7.30	11.0	11.0	9.2	84
DEC										
27...	1120	371	179	180	7.40	7.70	8.5	15.0	10.5	91
JAN										
25...	1100	618	150	153	7.60	7.60	7.0	10.5	11.2	93
FEB										
27...	1130	1280	122	122	7.41	7.40	7.0	11.0	11.0	93
MAR										
29...	1135	1110	131	131	7.30	7.50	17.5	26.0	8.3	89
APR										
25...	1020	563	150	154	7.70	7.60	20.0	26.5	7.7	86
MAY										
23...	1030	570	159	160	7.50	7.40	21.5	25.0	6.8	79
JUN										
28...	1100	1170	120	112	7.20	7.10	23.5	31.0	6.7	80
JUL										
25...	1110	1450	140	140	7.40	7.30	24.0	29.0	6.2	--
AUG										
29...	1050	390	159	160	7.30	7.30	25.5	29.0	5.3	66
SEP										
26...	1320	3660	107	108	7.20	7.10	17.0	23.0	8.0	85

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS TOTAL (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 26...	47	25	3.3	700	--	65	75
NOV 29...	59	25	1.9	1700	45	39	44
DEC 27...	23	11	2.2	1700	--	68	9
JAN 25...	8.0	12	1.6	50	60	61	14
FEB 27...	12	7	1.0	170	51	46	6
MAR 29...	15	37	1.7	350	48	50	23
APR 25...	12	20	1.0	--	60	55	17
MAY 23...	23	33	1.0	--	60	59	24
JUN 28...	22	16	0.5	1700	39	42	26
JUL 25...	50	34	1.6	7900	--	53	79
AUG 29...	38	22	--	2300	60	50	39
SEP 26...	100	28	2.2	13000	42	34	159

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 26...	0.500	0.080	0.72	0.80	1.3	0.400	7.2
NOV 29...	0.290	0.130	0.67	0.80	1.1	0.250	9.4
DEC 27...	0.350	0.050	0.55	0.60	0.95	0.130	6.3
JAN 25...	0.640	<0.030	--	0.40	1.0	0.190	3.6
FEB 27...	0.710	<0.030	--	0.40	1.1	0.120	3.0
MAR 29...	0.910	0.860	0.04	0.90	1.8	0.170	4.7
APR 25...	0.370	0.030	0.47	0.50	0.87	0.220	3.4
MAY 23...	0.500	0.040	0.46	0.50	1.0	0.200	4.1
JUN 28...	0.450	<0.030	--	0.40	0.85	0.140	3.2
JUL 25...	0.330	0.080	0.72	0.80	1.1	0.200	11
AUG 29...	0.620	0.110	0.49	0.60	1.2	0.290	8.9
SEP 26...	0.340	0.060	1.1	1.2	1.5	0.290	--

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	238	215	271	236	129	122	128	98	163	159	---	---
2	223	188	265	250	139	129	101	95	166	158	---	---
3	229	191	277	251	145	139	117	101	167	158	---	---
4	199	182	276	207	156	146	123	118	168	163	---	---
5	190	176	244	161	158	153	134	124	167	151	---	---
6	191	182	161	91	169	158	147	135	155	120	---	---
7	193	183	112	100	169	165	149	139	118	87	---	---
8	201	191	126	114	174	167	152	141	88	85	---	---
9	227	198	144	127	175	172	147	116	100	89	---	---
10	224	209	149	142	181	172	120	113	112	101	99	94
11	225	211	168	153	178	174	114	106	120	112	107	100
12	225	221	160	154	184	176	110	97	132	121	116	109
13	236	221	171	153	183	180	97	95	139	131	123	117
14	237	231	168	161	192	179	94	81	144	139	127	123
15	231	227	168	160	193	183	95	80	151	144	132	127
16	244	229	174	164	200	188	113	97	159	149	154	128
17	236	228	202	161	199	185	120	113	164	158	157	127
18	232	190	156	126	195	182	126	120	169	158	134	123
19	247	207	126	116	185	177	131	125	160	150	131	125
20	247	221	150	122	188	178	133	131	149	132	144	131
21	236	218	136	102	197	187	139	133	132	104	154	138
22	224	211	100	88	213	195	144	139	102	77	141	122
23	213	204	115	101	222	202	151	145	94	78	121	113
24	228	210	120	114	228	205	156	152	103	95	119	111
25	216	209	---	---	209	191	157	154	113	104	111	106
26	248	214	---	---	198	186	159	155	125	114	112	105
27	256	249	---	---	196	185	167	157	131	122	120	113
28	253	241	---	---	193	187	169	159	---	---	125	120
29	256	240	---	---	195	186	168	163	---	---	132	125
30	269	256	123	109	195	167	178	164	---	---	150	131
31	263	243	---	---	181	129	179	157	---	---	153	141
MONTH	269	176	277	88	228	122	179	80	169	77	157	94

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUUGUST		SEPTEMBER	
1	145	136	169	148	163	154	150	141	190	177	118	94
2	146	140	161	140	170	160	151	146	193	183	138	119
3	149	141	152	144	180	168	159	144	190	177	158	139
4	154	122	153	147	176	161	150	122	197	175	165	151
5	120	88	163	108	181	166	131	126	198	190	177	164
6	91	83	126	84	183	115	136	129	200	187	174	159
7	105	93	81	71	124	107	129	113	204	194	185	166
8	101	93	98	82	146	126	127	117	207	191	195	186
9	99	96	113	97	156	135	142	125	206	194	198	185
10	96	94	119	104	138	124	147	137	202	192	205	192
11	104	95	112	93	132	111	144	137	210	198	208	201
12	112	105	101	93	118	111	152	139	212	196	226	202
13	119	112	108	101	146	118	153	134	205	195	222	213
14	124	117	117	106	151	129	155	136	214	193	220	195
15	136	122	126	116	147	126	159	151	213	202	225	171
16	134	126	132	125	127	87	159	154	223	210	208	127
17	137	131	136	130	87	75	162	154	208	181	175	130
18	138	133	142	134	74	68	166	157	204	191	166	142
19	139	133	142	138	—	—	168	160	210	191	191	167
20	142	137	165	139	110	96	178	165	212	198	199	187
21	144	138	165	139	96	64	181	159	209	195	210	194
22	147	141	155	142	70	66	186	148	222	205	229	199
23	151	146	163	149	83	70	171	99	240	216	207	127
24	154	145	166	131	105	84	127	98	243	229	124	115
25	156	149	161	139	114	103	145	127	258	234	147	117
26	159	151	137	130	117	108	157	145	238	152	145	103
27	165	157	146	131	119	113	159	152	161	116	103	95
28	166	158	145	138	134	116	168	159	170	151	117	101
29	165	158	149	142	143	125	175	167	188	163	116	91
30	164	155	153	142	140	128	180	171	197	189	95	81
31	—	—	163	151	—	—	186	175	210	102	—	—
MONTH	166	83	169	71	183	64	186	98	258	102	229	81
YEAR	277	64										

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.45	7.33	7.68	7.48	7.52	7.45	7.29	7.12	7.62	7.54	---	---
2	7.49	7.38	7.71	7.47	7.57	7.52	7.12	7.09	7.65	7.59	---	---
3	7.50	7.41	7.69	7.41	7.61	7.56	7.26	7.12	7.62	7.57	---	---
4	7.46	7.35	7.62	7.40	7.64	7.59	7.33	7.26	7.64	7.58	---	---
5	7.44	7.37	7.62	7.23	7.65	7.61	7.41	7.33	7.66	7.49	---	---
6	7.45	7.41	7.26	7.06	7.64	7.61	7.43	7.40	7.50	7.37	---	---
7	7.45	7.38	7.20	7.07	7.62	7.59	7.42	7.39	7.37	7.23	---	---
8	7.50	7.39	7.23	7.17	7.60	7.56	7.44	7.40	7.25	7.21	---	---
9	7.49	7.45	7.43	7.23	7.57	7.53	7.42	7.29	7.33	7.16	---	---
10	7.58	7.47	7.45	7.37	7.55	7.52	7.33	7.28	7.44	7.34	7.27	7.18
11	7.65	7.50	7.47	7.34	7.56	7.52	7.32	7.22	7.49	7.44	7.36	7.27
12	7.63	7.47	7.55	7.44	7.55	7.51	7.28	7.16	7.51	7.48	7.42	7.34
13	7.73	7.52	7.54	7.48	7.59	7.52	7.15	7.11	7.51	7.48	7.46	7.41
14	7.71	7.50	7.57	7.48	7.58	7.47	7.12	7.06	7.51	7.48	7.49	7.43
15	7.80	7.56	7.55	7.46	7.54	7.46	7.09	7.04	7.50	7.45	7.52	7.48
16	7.67	7.53	7.65	7.51	7.55	7.46	7.27	7.01	7.47	7.44	7.55	7.41
17	7.94	7.61	7.62	7.42	7.61	7.48	7.39	7.28	7.47	7.43	7.60	7.45
18	7.86	7.61	7.41	7.32	7.64	7.55	7.47	7.40	7.49	7.44	7.47	7.43
19	7.73	7.43	7.42	7.39	7.68	7.59	7.56	7.47	7.46	7.42	7.55	7.44
20	7.56	7.49	7.47	7.27	7.67	7.57	7.60	7.54	7.43	7.34	7.59	7.55
21	7.56	7.44	7.43	7.28	7.64	7.56	7.63	7.60	7.37	7.19	7.60	7.49
22	7.53	7.43	7.31	7.14	7.58	7.47	7.64	7.62	7.18	7.00	7.59	7.54
23	7.62	7.49	7.40	7.31	7.58	7.42	7.63	7.61	7.06	6.99	7.55	7.49
24	7.68	7.57	7.47	7.36	7.52	7.36	7.61	7.57	7.29	7.04	7.51	7.47
25	7.71	7.51	---	---	7.55	7.41	7.61	7.58	7.37	7.30	7.47	7.45
26	7.64	7.46	---	---	7.71	7.53	7.59	7.54	7.39	7.36	7.49	7.46
27	7.56	7.40	---	---	7.73	7.63	7.54	7.49	7.41	7.29	7.54	7.49
28	7.60	7.46	---	---	7.75	7.61	7.52	7.47	---	---	7.56	7.51
29	7.68	7.48	---	---	7.75	7.58	7.53	7.50	---	---	7.58	7.55
30	7.63	7.47	7.45	7.39	7.71	7.55	7.55	7.52	---	---	7.60	7.53
31	7.54	7.49	---	---	7.55	7.29	7.59	7.51	---	---	7.70	7.54
MONTH	7.94	7.33	7.71	7.06	7.75	7.29	7.64	7.01	7.66	6.99	7.70	7.18

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.67	7.62	7.66	7.32	7.45	7.42	7.58	7.48	7.69	7.61	7.31	7.23
2	7.72	7.60	7.41	7.32	7.49	7.43	7.62	7.55	7.64	7.55	7.35	7.26
3	7.71	7.61	7.52	7.40	7.47	7.42	7.73	7.58	7.69	7.59	7.42	7.36
4	7.74	7.37	7.50	7.45	7.81	7.47	7.56	7.38	7.68	7.59	7.46	7.39
5	7.46	7.23	7.63	7.10	7.52	7.44	7.45	7.39	7.70	7.51	7.46	7.37
6	7.22	7.17	7.28	7.06	7.48	7.17	7.54	7.42	7.72	7.48	7.46	7.36
7	7.35	7.18	7.03	6.97	7.22	7.12	7.50	7.38	7.83	7.55	7.39	7.34
8	7.36	7.29	7.18	6.97	7.44	7.24	7.48	7.40	7.90	7.66	7.40	7.32
9	7.31	7.27	7.31	7.19	7.44	7.38	7.59	7.41	8.09	7.76	7.41	7.36
10	7.28	7.22	7.47	7.30	7.45	7.39	7.61	7.54	8.43	7.85	7.44	7.39
11	7.38	7.29	7.47	7.32	7.47	7.38	7.61	7.54	8.54	7.82	7.47	7.41
12	7.43	7.39	7.48	7.34	7.43	7.37	7.60	7.52	8.60	7.86	7.48	7.44
13	7.47	7.43	7.58	7.48	7.46	7.39	7.64	7.58	8.70	7.92	7.52	7.48
14	7.49	7.44	7.64	7.59	7.52	7.41	7.64	7.57	8.69	7.89	7.52	7.40
15	7.50	7.46	7.71	7.64	7.48	7.33	7.66	7.61	8.37	7.84	7.80	7.31
16	7.54	7.47	7.74	7.71	7.33	7.08	7.70	7.66	8.26	8.01	7.39	7.11
17	7.57	7.52	7.77	7.72	7.07	6.88	7.80	7.68	8.25	7.70	7.40	7.11
18	7.56	7.52	7.72	7.63	6.87	6.80	7.82	7.79	7.90	7.64	7.32	7.28
19	7.59	7.53	7.67	7.62	—	—	7.84	7.79	7.98	7.71	7.35	7.28
20	7.61	7.49	7.75	7.59	7.25	6.94	7.86	7.81	7.85	7.71	7.35	7.31
21	7.61	7.59	7.63	7.55	7.21	6.93	7.86	7.83	7.88	7.56	7.36	7.31
22	7.63	7.56	7.61	7.59	6.94	6.90	7.89	7.77	7.86	7.62	7.40	7.29
23	7.61	7.52	7.65	7.57	7.04	6.96	7.82	7.43	7.72	7.54	7.39	7.27
24	7.63	7.54	7.64	7.52	7.17	7.00	7.48	7.37	7.66	7.50	7.34	7.29
25	7.61	7.53	7.60	7.51	7.31	7.18	7.51	7.45	7.58	7.43	7.36	7.19
26	7.61	7.48	7.51	7.46	7.40	7.32	7.56	7.51	7.53	7.41	7.38	7.16
27	7.61	7.44	7.54	7.42	7.46	7.40	7.62	7.54	7.47	7.17	7.19	7.15
28	7.52	7.41	7.52	7.46	7.53	7.44	7.64	7.60	7.37	7.23	7.40	7.20
29	7.50	7.41	7.53	7.42	7.60	7.48	7.69	7.60	7.46	7.34	7.30	7.02
30	7.53	7.45	7.50	7.40	7.59	7.45	7.70	7.63	7.50	7.38	7.03	6.80
31	—	—	7.50	7.41	—	—	7.72	7.65	7.51	7.32	—	—
MONTH	7.74	7.17	7.77	6.97	7.81	6.80	7.89	7.37	8.70	7.17	7.80	6.80
YEAR	8.70	6.80										

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.5	21.5	13.5	11.5	8.5	7.5	8.5	7.5	10.5	9.5	---	---
2	21.5	21.0	13.5	11.5	7.5	6.5	9.0	8.5	12.0	10.5	---	---
3	21.5	20.5	12.5	10.5	7.0	6.0	9.5	9.0	13.0	12.0	---	---
4	21.0	19.5	13.5	11.5	7.0	6.0	9.0	7.5	12.0	11.0	---	---
5	19.5	17.5	14.0	13.0	6.5	5.5	7.5	6.5	11.0	8.5	---	---
6	17.5	16.0	13.5	12.5	6.5	5.0	8.0	6.5	8.5	8.0	---	---
7	17.0	15.5	12.0	11.0	7.0	5.0	9.5	8.0	8.0	7.0	---	---
8	16.0	14.0	11.5	11.0	8.0	6.0	11.0	9.5	6.5	6.0	---	---
9	15.5	14.0	13.0	11.5	8.0	7.0	11.0	9.0	6.0	5.0	---	---
10	15.5	14.5	14.0	13.0	7.0	6.0	9.0	7.5	5.0	4.0	11.0	9.5
11	16.0	14.0	13.5	12.5	6.5	5.5	8.0	7.0	5.0	3.5	11.5	10.0
12	16.0	13.5	12.5	11.5	5.5	4.5	9.0	8.0	6.0	4.5	13.0	11.0
13	15.0	12.5	12.5	11.5	5.0	3.5	9.5	9.0	8.0	6.0	13.5	12.5
14	13.5	11.0	12.0	11.0	5.0	3.5	9.5	8.0	10.5	8.0	14.5	13.0
15	13.5	11.5	12.5	11.0	6.0	5.0	8.5	7.5	13.0	10.5	15.0	14.0
16	14.0	12.0	14.0	12.0	6.0	5.0	9.0	8.5	13.0	12.5	15.5	14.5
17	16.0	13.5	14.0	13.0	5.0	4.0	8.5	7.5	12.5	10.5	15.0	14.0
18	16.0	14.5	12.5	11.5	4.0	2.5	7.5	6.5	10.5	8.5	15.5	15.0
19	16.5	15.0	11.5	11.5	3.5	2.0	7.0	6.5	8.5	7.5	15.5	14.0
20	15.0	14.0	13.5	11.5	4.5	3.0	7.5	7.0	8.0	7.5	14.5	13.5
21	14.0	13.5	13.5	13.0	6.5	5.0	7.0	6.5	10.0	8.0	13.0	12.5
22	14.0	12.5	13.0	11.5	8.5	6.5	6.5	5.5	10.5	9.5	12.0	11.0
23	13.5	12.0	11.5	11.0	10.0	9.0	6.5	5.0	9.5	6.5	11.0	10.0
24	15.0	13.0	11.0	10.0	11.5	10.5	7.0	5.5	6.5	4.5	10.5	10.0
25	13.5	12.0	---	---	11.0	10.0	7.5	6.0	5.0	4.0	12.5	10.5
26	14.0	12.0	---	---	10.0	9.0	8.0	7.0	7.0	5.0	14.0	12.0
27	13.0	11.5	---	---	9.5	8.0	9.0	8.0	7.0	7.0	15.0	13.5
28	13.5	12.0	---	---	10.0	8.5	9.0	8.0	---	---	17.0	15.0
29	14.0	12.0	---	---	8.5	7.0	9.5	8.0	---	---	18.5	16.5
30	13.5	12.5	9.5	8.5	7.5	6.5	10.5	9.0	---	---	18.5	18.0
31	12.5	12.0	---	---	7.5	6.5	10.5	9.5	---	---	18.0	16.0
MONTH	22.5	11.0	14.0	8.5	11.5	2.0	11.0	5.0	13.0	3.5	18.5	9.5

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	14.5	22.0	19.5	26.0	23.5	22.5	22.0	26.0	25.0	25.0	24.5
2	15.0	13.5	19.5	18.5	25.5	24.0	22.0	21.5	26.5	25.0	25.5	24.0
3	14.5	14.0	18.5	17.5	25.0	23.5	22.5	21.5	27.0	25.0	25.5	24.5
4	14.5	14.0	18.0	16.5	24.0	23.0	22.5	22.0	27.5	25.5	25.5	24.0
5	15.0	14.5	16.5	16.0	23.5	22.5	22.5	22.0	28.0	25.5	25.0	23.5
6	15.0	14.5	16.5	16.0	22.5	21.5	23.0	22.0	28.0	26.0	24.5	23.5
7	14.0	11.5	16.0	15.0	22.0	21.0	24.0	23.0	27.5	26.0	25.0	23.5
8	11.5	11.0	15.0	14.5	21.5	21.0	24.5	24.0	26.5	24.0	25.5	23.5
9	11.0	10.5	15.0	14.5	21.5	21.0	25.0	23.5	24.5	23.0	26.0	24.5
10	10.5	10.0	15.5	15.0	22.0	20.5	25.5	24.0	24.5	23.0	26.0	24.5
11	11.0	9.5	15.5	15.0	22.5	21.0	25.0	24.5	25.0	23.0	25.0	24.5
12	11.0	9.5	15.5	14.0	23.0	21.5	25.5	24.0	24.5	23.0	26.0	24.5
13	12.5	10.5	15.5	14.0	23.0	22.0	25.0	24.5	24.5	23.0	26.0	25.0
14	13.5	11.5	16.0	15.0	23.0	22.0	25.5	24.0	25.0	23.5	26.0	25.0
15	14.0	13.0	17.5	15.5	22.5	21.5	25.0	24.0	25.5	24.0	25.5	23.5
16	15.0	13.0	18.5	16.0	21.5	20.0	24.5	23.5	25.5	24.0	23.5	22.5
17	16.0	14.0	19.0	17.0	21.0	20.0	25.0	23.0	25.5	24.5	23.0	22.0
18	17.5	15.0	20.5	18.0	22.0	21.0	25.0	23.0	25.5	24.0	22.5	21.5
19	18.5	16.5	20.5	19.5	—	—	24.5	23.5	26.0	24.5	22.5	21.0
20	18.5	17.0	20.0	19.5	21.0	20.5	24.5	23.0	26.0	25.0	22.5	21.0
21	19.0	17.0	21.0	19.0	21.5	20.5	24.5	23.5	27.0	25.0	22.5	22.0
22	19.0	17.0	22.0	20.0	22.0	21.5	24.5	23.5	27.5	26.0	22.0	21.5
23	19.5	18.0	23.0	21.0	22.0	21.5	24.0	23.5	28.0	26.5	21.5	20.0
24	21.0	18.5	22.0	20.5	21.5	21.0	24.0	23.5	27.5	26.0	20.0	18.0
25	22.0	19.5	23.0	21.0	23.0	21.5	25.5	23.5	27.5	25.5	18.0	16.5
26	22.5	20.0	24.0	22.0	23.5	22.0	26.5	24.5	27.0	25.5	17.0	16.5
27	23.0	20.5	24.0	23.0	24.0	23.0	27.5	25.5	26.0	24.5	17.5	17.0
28	22.5	21.0	24.0	22.0	24.0	23.5	27.5	26.0	26.5	24.5	17.5	17.5
29	22.5	21.0	24.0	22.0	23.5	23.0	28.0	26.0	27.0	25.5	17.0	17.0
30	22.5	20.5	24.5	22.0	23.0	22.0	28.0	26.0	27.0	26.0	18.0	17.0
31	—	—	25.0	22.5	—	—	27.5	26.0	26.0	25.0	—	—
MONTH	23.0	9.5	25.0	14.0	26.0	20.0	28.0	21.5	28.0	23.0	26.0	16.5
YEAR	28.0	2.0										

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.9	5.5	8.4	7.5	10.5	9.9	10.4	9.8	10.1	9.9	---	---
2	6.2	5.5	9.3	7.7	10.8	10.5	9.8	9.7	10.1	9.5	---	---
3	6.3	5.7	9.5	7.7	11.0	10.7	10.1	9.8	9.6	9.3	---	---
4	6.5	6.0	9.3	7.7	11.0	10.9	10.3	10.0	9.7	9.2	---	---
5	7.0	6.4	8.2	6.6	11.1	11.0	10.7	10.3	10.4	9.7	---	---
6	7.3	6.9	7.5	6.6	11.3	11.0	10.7	10.3	10.5	10.4	---	---
7	7.5	7.2	8.8	7.6	11.3	11.0	10.3	9.8	10.9	10.5	---	---
8	8.0	7.5	9.1	8.8	11.0	10.6	9.8	9.2	11.4	10.9	---	---
9	8.0	7.8	9.1	8.4	10.6	10.4	9.4	9.0	11.9	11.2	---	---
10	8.3	8.0	8.3	8.0	10.8	10.4	10.3	9.4	12.4	11.9	10.6	10.2
11	8.5	7.8	8.2	7.8	11.0	10.6	10.3	9.8	12.6	12.4	10.1	9.8
12	8.7	7.9	8.7	8.2	11.1	10.7	10.2	9.6	12.4	12.2	9.7	9.4
13	9.3	8.1	8.7	8.6	11.5	11.0	9.6	9.2	12.2	11.8	9.3	9.0
14	9.8	8.3	8.9	8.7	11.6	11.2	9.5	9.2	11.7	10.9	9.0	8.8
15	10.5	9.0	8.9	8.7	11.6	11.1	9.8	9.5	10.9	10.1	8.9	8.7
16	10.0	8.9	8.7	8.3	11.5	10.9	10.0	9.3	10.0	9.7	8.8	7.6
17	10.8	8.9	8.3	7.6	11.9	11.1	10.6	10.0	9.9	9.7	9.0	8.5
18	10.0	8.6	8.9	7.9	12.4	11.7	11.1	10.6	10.5	9.9	8.8	8.6
19	8.7	7.5	9.2	8.9	12.9	12.2	11.1	10.9	10.9	10.5	9.9	8.4
20	8.3	7.4	9.2	8.0	12.9	12.4	11.0	10.9	10.9	10.9	9.1	9.0
21	8.0	7.3	8.2	7.9	12.6	11.9	11.2	10.9	10.9	10.1	9.2	8.9
22	8.0	7.4	9.0	8.3	11.8	11.1	11.4	11.2	10.1	9.5	9.7	9.2
23	8.7	8.0	9.3	9.1	11.3	10.2	11.6	11.3	10.3	9.5	10.0	9.8
24	8.6	8.2	9.5	9.3	10.1	9.1	11.5	11.3	11.8	10.5	9.9	9.9
25	8.7	8.1	---	---	9.9	9.0	11.3	11.0	12.2	11.8	9.8	9.5
26	8.9	7.9	---	---	10.4	9.6	11.0	10.8	12.1	11.7	9.5	9.1
27	8.9	7.8	---	---	10.8	10.2	10.8	10.5	11.7	10.9	9.1	8.7
28	9.1	8.0	---	---	10.8	10.2	10.7	10.4	---	---	8.7	8.4
29	9.0	7.7	---	---	11.1	10.0	10.7	10.5	---	---	9.4	8.1
30	8.9	7.6	10.0	9.4	11.1	10.6	10.5	10.0	---	---	9.4	7.6
31	8.4	7.6	---	---	10.8	10.5	10.0	9.8	---	---	8.0	7.5
MONTH	10.8	5.5	10.0	6.6	12.9	9.0	11.6	9.0	12.6	9.2	10.6	7.5

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.4	7.9	7.1	6.7	6.8	6.6	7.5	7.2	6.4	5.7	6.3	6.0
2	8.9	8.4	7.2	6.6	6.7	6.4	7.8	7.4	6.2	5.7	6.1	5.9
3	8.8	8.5	7.9	7.2	6.5	6.2	7.9	7.7	6.8	6.2	6.0	5.8
4	8.6	7.9	8.0	7.7	6.8	6.4	7.8	7.3	6.7	6.3	6.3	5.8
5	7.9	7.8	8.1	7.5	7.1	6.7	7.6	7.4	7.1	5.7	6.4	5.8
6	8.0	7.8	7.8	7.4	7.1	6.4	7.7	7.4	7.2	5.7	6.3	6.0
7	9.3	8.0	8.1	7.8	6.9	6.5	7.4	6.9	7.8	6.0	6.2	5.8
8	9.3	9.3	8.9	7.9	7.7	6.9	7.0	6.8	8.4	6.5	6.1	5.6
9	9.5	9.3	8.9	8.7	8.0	6.8	7.4	7.0	9.3	7.4	6.1	5.8
10	9.9	9.5	8.7	8.4	7.2	6.9	7.3	7.1	10.0	7.8	6.2	5.8
11	10.2	9.9	8.5	8.3	7.4	7.2	7.3	7.1	10.4	7.8	6.4	6.0
12	10.2	9.9	8.7	8.5	7.4	7.0	7.2	6.6	10.6	7.9	6.4	6.1
13	9.9	9.6	8.8	8.6	7.0	6.6	7.1	6.9	10.8	7.8	6.5	6.1
14	9.7	9.4	8.6	8.4	6.9	6.7	7.0	6.7	10.4	7.3	6.4	5.3
15	9.3	8.7	8.4	8.0	6.9	6.6	6.8	6.5	9.5	7.2	6.3	5.2
16	8.9	8.7	8.0	7.8	6.6	6.5	6.9	6.7	9.3	7.8	6.0	5.5
17	8.9	8.6	7.9	7.7	6.6	5.7	7.1	6.8	9.1	6.4	6.3	5.9
18	8.6	8.3	7.7	7.2	6.5	5.5	7.1	7.0	8.5	6.4	6.4	6.0
19	8.3	7.9	7.4	7.1	—	—	7.1	7.0	8.6	6.8	6.3	5.9
20	8.1	7.7	7.3	6.5	7.0	5.4	7.0	6.5	8.2	6.9	6.3	6.0
21	8.1	7.9	7.2	6.5	6.9	6.1	6.8	6.5	8.1	5.7	6.3	5.6
22	8.1	7.7	7.1	7.0	6.0	5.7	6.8	6.3	7.8	6.3	6.3	5.5
23	8.1	7.5	6.9	6.7	6.0	5.8	6.7	6.2	7.0	5.6	7.0	6.1
24	8.1	7.6	6.9	6.5	6.8	5.7	6.3	6.1	6.5	5.2	7.5	7.0
25	7.9	7.6	6.9	6.6	7.0	6.7	6.6	6.4	6.1	4.7	8.0	7.5
26	7.8	7.2	6.8	6.6	7.1	6.9	6.6	6.4	6.0	5.1	7.9	7.7
27	7.8	7.0	6.7	6.4	7.0	6.9	6.5	6.4	5.7	4.7	7.9	7.6
28	7.4	6.9	6.8	6.3	7.1	6.3	6.4	6.0	5.1	4.7	8.1	7.7
29	7.2	6.7	6.8	6.2	7.1	6.3	6.2	4.6	5.5	4.9	8.1	7.6
30	7.4	6.9	6.8	6.1	7.4	7.1	6.4	5.9	5.5	4.9	7.6	6.8
31	—	—	7.0	6.8	—	—	6.5	6.0	6.2	5.0	—	—
MONTH	10.2	6.7	8.9	6.1	8.0	5.4	7.9	4.6	10.8	4.7	8.1	5.2
YEAR	12.9	4.6										

02387050 CONASAUGA RIVER NEAR RESACA, GA.

LOCATION.–Lat 34°35'36", long 84°56'02", Gordon County, Hydrologic Unit 03150101, at bridge on State Highway 136, 1.1 mi northeast of Resaca, and 5.1 mi upstream from the confluence with Coosawattee River.

DRAINAGE AREA.–706 mi^2.

PERIOD OF RECORD.–August 1974 to current year.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
26...	1040	130	220	223	7.50	7.60	13.0	17.0	8.7	84
NOV										
29...	1100	2550	119	119	7.30	7.40	11.0	9.5	9.0	82
DEC										
27...	1100	480	189	196	7.30	7.70	8.5	14.0	10.4	90
JAN										
25...	1040	740	150	156	7.10	7.50	6.5	9.0	11.0	91
FEB										
27...	1100	1000	121	122	--	7.40	11.0	12.0	11.0	103
MAR										
29...	1040	1350	130	133	7.00	7.50	13.5	25.0	10.0	98
APR										
25...	0940	640	150	147	7.60	7.40	20.0	25.0	7.5	84
MAY										
23...	0930	640	153	156	7.50	7.40	21.0	24.0	7.2	83
JUN										
28...	1030	1850	120	117	7.20	7.10	23.5	31.0	6.7	80
JUL										
25...	0955	1750	130	132	7.30	7.50	24.0	27.0	6.1	--
AUG										
29...	1020	420	162	167	7.30	7.20	26.0	27.0	4.9	61
SEP										
26...	1250	3300	124	127	7.40	7.40	17.0	22.0	8.0	85

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS TOTAL (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
26...	15	2.2	260	84	69	0.520	0.080	0.330	4.3
NOV									
29...	80	2.0	13000	45	39	0.280	0.050	0.270	9.8
DEC									
27...	20	1.1	140	93	73	0.350	0.050	0.130	4.3
JAN									
25...	10	2.4	790	75	53	0.700	0.080	0.280	3.9
FEB									
27...	11	1.0	1300	54	45	0.720	<0.030	0.150	2.3
MAR									
29...	19	2.3	170	54	50	0.600	0.410	0.160	4.6
APR									
25...	15	1.2	--	54	55	0.460	0.070	0.210	5.4
MAY									
23...	21	1.1	--	60	59	0.530	0.060	0.190	4.5
JUN									
28...	26	0.4	2300	48	44	0.440	<0.030	0.170	3.5
JUL									
25...	52	1.6	1100	--	49	0.280	0.050	0.200	10
AUG									
29...	39	--	790	63	51	0.710	0.080	0.260	9.0
SEP									
26...	120	0.8	11000	52	41	0.380	0.070	0.340	--

02387500 OOSTANAULA RIVER AT RESACA, GA.

LOCATION.–Lat 34°34'42", long 84°56'29", Gordon County, Hydrologic Unit 03150103, on downstream side of center pier of bridge on U.S. Highway 41 at Resaca, 200 ft downstream from Nashville, Chattanooga, & St. Louis Railway bridge, 0.8 mi upstream from Camp Creek, and 3.5 mi downstream from confluence of Conasauga and Coosawattee Rivers.

DRAINAGE AREA.–1,600 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–October 1892 to current year. Monthly discharge only for October, 1892, published in WSP 1304. Gage-height records collected at same site since 1892 are contained in reports of National Weather Service.

REVISED RECORDS.–WSP 697: 1896-1928. WSP 1504: 1897-1903, 1905-07, 1909, 1912-13, 1914-15(M), 1916-18, 1919(M), 1920-22, 1923(M), 1924, 1927, 1929-30, 1932, 1933(M), 1936(M), 1938(M), 1946-47(M). WDR GA-80-1: Drainage area.

GAGE.–Water-stage recorder. Datum of gage is 604.14 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Since June 1, 1979, auxiliary water-stage recorder at Calhoun water-works intake 6.5 mi downstream. Oct. 28, 1948, to May 31, 1979, nonrecording auxiliary gage located at State Highway 136 connector 7.1 mi downstream.

REMARKS.–No estimated daily discharges. Records good. Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400).

AVERAGE DISCHARGE.–97 years, 2,787 ft^3/s, 23.65 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 54,800 ft^3/s Mar. 31, 1951; maximum gage height, 34.6 ft Mar. 31, 1951; minimum discharge observed, 180 ft^3/s Sept. 7, 8, 1925, gage height, 0.5 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known since at least 1834, 36.6 ft Apr. 1, 1886, from information by Georgia Department of Archives; discharge, 68,600 ft^3/s.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, 17,000 ft^3/s, Mar. 7, gage height, 22.87 ft; minimum daily discharge, 400 ft^3/s, Oct. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	466	476	1630	6610	1920	14400	3690	2330	1490	5140	2530	2310
2	683	456	1370	6140	1770	14200	2610	3280	1480	4040	2550	1900
3	1060	450	1200	4310	1650	14300	2390	2650	1330	4140	2190	1780
4	874	479	1120	4430	1590	11100	4340	1570	1160	6830	2080	1680
5	696	1720	1040	3370	2030	11700	10400	3200	1160	7220	1920	1640
6	585	2780	968	3060	5520	15400	10300	8810	2470	6880	1840	1490
7	532	2250	928	3280	7680	16600	10500	7710	3370	8150	1830	1130
8	504	1360	892	3040	8570	14300	10200	6050	2620	6890	1710	1050
9	504	1110	874	4540	7530	12100	10900	4350	2500	4860	1650	969
10	489	973	863	6190	4590	7360	9770	4770	3000	4120	1400	967
11	455	920	881	7780	3600	6340	7740	5720	2790	4080	1370	934
12	416	907	849	11200	3030	6690	6670	4730	2280	4040	1280	929
13	401	958	810	12100	2720	6120	6210	3690	2140	4060	1170	889
14	401	1020	773	12200	2870	5310	5480	2930	2570	3800	1160	922
15	602	960	753	11300	2790	5100	4190	2690	4730	2760	1130	1000
16	438	914	717	9680	2710	4680	3670	2600	8730	2150	1100	2460
17	400	1730	718	5760	2670	4580	3120	2490	11600	2090	1180	2120
18	408	1950	726	4640	2450	3340	2820	2190	11200	2150	1150	1540
19	482	1640	699	3960	3670	2450	2730	2020	11300	2140	1090	1070
20	518	2480	664	3360	4100	2370	2600	1620	12700	2300	1050	897
21	546	4110	644	2610	7050	3380	2520	1900	13100	2310	1070	834
22	560	3050	659	2280	10100	4630	2460	1750	13400	2310	1010	998
23	506	1900	712	2070	9650	5310	2440	1560	13800	3270	997	2020
24	509	1460	879	1960	6700	7180	2440	2680	12800	4150	982	2680
25	495	1270	991	1940	4420	6630	2400	2550	8230	3230	1070	2160
26	457	1140	1180	1830	3770	5070	2410	2230	6610	2790	1300	5060
27	431	1530	999	1850	4040	4250	2390	1960	6370	2620	1900	5230
28	440	3030	889	1880	11400	4450	2400	1890	6020	2330	1650	3320
29	469	3070	886	1660	—	4380	2200	1760	6390	2230	1290	7730
30	469	2150	1010	1690	—	4480	1890	1580	5950	2080	1600	12000
31	476	—	3130	2050	—	4720	—	1510	—	2090	2070	—
TOTAL	16272	48243	30454	148770	130590	232920	143880	96770	183290	117250	46319	69709
MEAN	525	1608	982	4799	4664	7514	4796	3122	6110	3782	1494	2324
MAX	1060	4110	3130	12200	11400	16600	10900	8810	13800	8150	2550	12000
MIN	400	450	644	1660	1590	2370	1890	1510	1160	2080	982	834

CAL YR 1988 TOTAL 406458 MEAN 1111 MAX 11100 MIN 339 MEAN† 1167 CFSM† .73 IN† 9.91
WTR YR 1989 TOTAL 1264467 MEAN 3464 MAX 16600 MIN 400 MEAN† 3529 CFSM† 2.20 IN† 29.88

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.91	1.94	4.47	11.38	4.69	19.79	7.39	5.35	3.93	9.56	5.88	5.53
2	2.43	1.89	3.92	10.61	4.44	19.68	5.80	6.84	3.91	8.15	5.92	4.82
3	3.24	1.87	3.59	8.21	4.23	19.60	5.46	5.86	3.64	8.28	5.33	4.62
4	2.86	1.95	3.39	8.35	4.12	16.72	8.13	4.08	3.34	11.63	5.14	4.42
5	2.47	4.55	3.23	6.97	4.85	16.86	15.41	6.48	3.34	12.10	4.85	4.36
6	2.21	6.60	3.06	6.51	9.77	21.46	15.31	13.78	5.57	11.69	4.71	4.07
7	2.08	5.64	2.97	6.86	12.49	22.63	15.48	12.54	6.98	13.16	4.70	3.38
8	2.01	3.90	2.89	6.49	13.52	20.82	15.26	10.44	5.82	11.70	4.48	3.23
9	2.01	3.38	2.85	8.49	12.29	18.21	15.95	8.25	5.63	9.21	4.37	3.06
10	1.98	3.08	2.83	10.63	8.56	12.31	14.78	8.79	6.44	8.26	3.91	3.06
11	1.89	2.96	2.87	12.55	7.28	10.83	12.57	10.03	6.10	8.22	3.85	2.99
12	1.78	2.93	2.80	16.31	6.47	11.28	11.25	8.74	5.28	8.17	3.67	2.98
13	1.74	3.04	2.71	17.45	5.97	10.54	10.66	7.40	5.06	8.19	3.47	2.89
14	1.74	3.18	2.62	17.50	6.23	9.49	9.71	6.32	5.74	7.84	3.45	2.96
15	2.25	3.05	2.58	16.40	6.09	9.22	8.04	5.93	8.73	6.26	3.40	3.13
16	1.84	2.94	2.49	14.66	5.97	8.67	7.38	5.78	13.66	5.25	3.34	5.76
17	1.74	4.66	2.49	10.07	5.90	8.55	6.61	5.62	16.62	5.15	3.49	5.20
18	1.76	5.09	2.51	8.62	5.55	6.90	6.14	5.13	16.23	5.26	3.43	4.17
19	1.95	4.48	2.45	7.75	7.35	5.55	6.00	4.86	16.33	5.24	3.32	3.27
20	2.04	5.92	2.37	6.95	7.93	5.43	5.79	4.18	17.78	5.51	3.24	2.90
21	2.12	8.51	2.32	5.81	11.62	6.94	5.66	4.66	18.47	5.52	3.26	2.76
22	2.15	7.06	2.35	5.28	15.17	8.60	5.57	4.40	18.75	5.53	3.15	3.11
23	2.02	4.98	2.48	4.95	14.67	9.49	5.54	4.07	19.02	7.03	3.12	5.01
24	2.03	4.12	2.86	4.75	11.25	11.90	5.53	5.92	18.15	8.30	3.09	6.13
25	1.99	3.73	3.11	4.72	8.34	11.20	5.47	5.71	13.29	7.01	3.26	5.26
26	1.89	3.45	3.53	4.54	7.50	9.18	5.49	5.21	11.38	6.32	3.73	9.44
27	1.82	4.24	3.13	4.57	7.86	8.12	5.46	4.75	11.08	6.03	4.79	9.66
28	1.85	7.03	2.89	4.62	16.43	8.37	5.48	4.65	10.66	5.55	4.35	7.14
29	1.92	7.12	2.88	4.24	—	8.28	5.15	4.41	11.10	5.38	3.70	12.55
30	1.92	5.46	3.15	4.30	—	8.41	4.64	4.11	10.57	5.13	4.28	17.07
31	1.94	—	6.96	4.91	—	8.73	—	3.97	—	5.15	5.12	—
MEAN	2.05	4.29	3.06	8.56	8.45	12.06	8.57	6.40	10.09	7.61	4.06	5.16
MAX	3.24	8.51	6.96	17.50	16.43	22.63	15.95	13.78	19.02	13.16	5.92	17.07
MIN	1.74	1.87	2.32	4.24	4.12	5.43	4.64	3.97	3.34	5.13	3.09	2.76

WTR YR 1989 MEAN 6.68 MAX 22.63 MIN 1.74

02387500 OOSTANAULA RIVER AT RESACA, GA.–Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.–November 1969 to June 1974, April 1981 to current year.
PERIOD OF DAILY RECORD.–
WATER TEMPERATURES: July 1967 to September 1984.
EXTREMES FOR PERIOD OF DAILY RECORD.–
WATER TEMPERATURES: Maximum recorded, 28.5°C Aug. 21, 1980; minimum recorded, 1.0°C Jan. 9-14, 1970, Jan. 16, 17, 21-24, Feb. 1, 1977, Jan. 12, 13, 1981, Dec. 31, 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT						
13...	0900	84213	397	--	9	9.6
13...	0905	84213	397	--	9	9.6
FEB						
15...	1024	84213	2820	12.5	28	213
15...	1029	84213	2820	12.5	27	205
21...	1355	84213	7970	--	233	5010
21...	1800	84213	8930	--	212	5110
21...	1805	84213	8930	--	209	5040
22...	0805	84213	10200	--	164	4520
22...	0810	84213	10200	--	160	4410
23...	1226	84213	9670	--	88	2300
23...	1231	84213	9670	--	92	2400
24...	1245	84213	6380	--	38	654
24...	1250	84213	6380	--	37	637
28...	1458	84213	12800	--	179	6180
MAR						
01...	1255	84213	14600	--	102	4020
01...	1300	84213	14600	--	101	3980
02...	1255	84213	14100	--	72	2740
02...	1300	84213	14100	--	65	2480
06...	1648	84213	15900	--	108	4630
07...	1058	84213	16700	--	73	3290
07...	1103	84213	16700	--	68	3070
08...	1101	84213	14400	--	42	1630
08...	1106	84213	14400	--	50	1940
10...	1056	84213	7290	--	38	748
10...	1101	84213	7290	--	39	768
30...	1048	84213	4490	--	40	484
30...	1053	84213	4490	--	43	521
MAY						
24...	0803	84213	2750	18.5	54	401
24...	0808	84213	2750	18.5	54	401
AUG						
02...	0818	84213	2630	22.5	43	305
02...	0823	84213	2630	22.5	43	305
SEP						
13...	0926	84213	886	--	22	53
13...	0931	84213	886	--	23	55

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
FEB									
21...	1350	84213	7970	90	93	97	98	100	--
21...	1355	84213	7970	86	--	--	--	--	--
23...	1226	84213	9670	80	--	--	--	--	--
28...	1453	84213	12800	89	95	98	100	100	--
28...	1458	84213	12800	85	--	--	--	--	--
MAR									
06...	1643	84213	15900	86	88	95	97	99	100
06...	1648	84213	15900	77	--	--	--	--	--
08...	1101	84213	14400	86	--	--	--	--	--

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JAN							
13...	1643	84213	12400	<1	<1	2	28
13...	1644	84213	12400	<1	<1	<1	1
13...	1645	84213	12400	<1	<1	2	7
13...	1646	84213	12400	<1	<1	<1	1
13...	1647	84213	12400	9	22	35	45
FEB							
24...	1347	84213	6180	<1	<1	2	12
24...	1348	84213	6180	<1	<1	<1	1
24...	1349	84213	6180	<1	<1	1	1
SEP							
27...	1333	84213	5190	2	8	24	49
27...	1334	84213	5190	<1	2	13	53
27...	1335	84213	5190	<1	<1	1	1
27...	1336	84213	5190	<1	<1	4	4

DATE	TIME	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
JAN							
13...	1643	91	99	100	100	--	--
13...	1644	20	75	95	99	100	--
13...	1645	37	86	99	100	--	--
13...	1646	26	85	99	100	--	--
13...	1647	58	74	88	92	100	--
FEB							
24...	1347	85	100	100	--	--	--
24...	1348	5	23	83	100	--	--
24...	1349	8	26	37	45	53	100
SEP							
27...	1333	61	63	65	72	90	100
27...	1334	99	100	--	--	--	--
27...	1335	11	24	28	30	30	39
27...	1336	13	74	98	100	--	--

02387502 OOSTANAULA RIVER BELOW RESACA, GA.

LOCATION.--Lat 34°34'17", long 84°56'49", Gordon County, Hydrologic Unit 03150103, at bridge on Interstate Highway 75, 0.4 mi west of Resaca, and 0.4 mi upstream from Camp Creek.

DRAINAGE AREA.--1,600 mi^2.

PERIOD OF RECORD.--August 1974 to current year.

REVISED RECORDS.--WDR GA-80-1: Drainage area.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Departmont of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Carters Lake and Carters re-regulatation reservoir (see "Lakes and Reservoirs in Mobile River Basin", stations 02381400 and 02382400). Discharge obtained from gaging station 02387500, Oostanaula River at Resaca, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
26...	1020	457	120	124	7.30	7.40	13.0	16.0	8.2	79
NOV										
29...	1040	3150	120	122	7.20	7.50	11.0	9.5	8.8	81
DEC										
27...	1040	995	147	152	--	7.60	9.0	14.0	10.7	94
JAN										
25...	1020	1950	110	112	7.00	7.40	7.5	9.0	11.0	93
FEB										
27...	1030	3620	90	90	--	7.50	7.5	14.0	11.2	96
MAR										
29...	1100	4390	90	79	7.40	7.30	14.0	25.5	10.1	101
APR										
25...	0920	2440	94	95	7.30	7.40	17.5	23.0	8.7	93
MAY										
23...	0910	1530	121	121	7.40	7.40	20.0	24.5	7.8	88
JUN										
28...	1010	5940	62	58	6.90	6.90	19.5	29.5	8.3	92
JUL										
25...	1025	3340	110	110	7.40	7.30	24.0	28.0	6.2	--
AUG										
29...	0950	1300	100	104	7.10	7.20	25.0	24.0	6.0	74
SEP										
26...	1230	5420	119	121	7.40	7.20	17.5	22.0	8.0	86

02387502 OOSTANAULA RIVER BELOW RESACA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS TOTAL (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
26...	7.0	1.8	150	45	41	0.200	<0.030	0.100	2.6
NOV									
29...	80	2.1	3300	51	43	0.290	0.090	0.260	11
DEC									
27...	19	2.0	700	54	54	0.380	0.090	0.100	3.4
JAN									
25...	6.0	1.5	80	51	42	0.510	0.150	0.120	2.7
FEB									
27...	12	0.8	90	33	31	0.600	<0.030	0.100	2.0
MAR									
29...	14	2.1	130	30	28	0.380	0.130	0.910	3.2
APR									
25...	11	1.3	--	36	34	0.320	0.080	0.130	2.9
MAY									
23...	17	1.0	--	48	45	0.450	0.070	0.100	3.0
JUN									
28...	15	1.0	790	17	19	0.280	<0.030	0.080	4.1
JUL									
25...	40	1.3	790	--	41	0.260	0.100	0.150	7.7
AUG									
29...	25	1.2	170	40	33	0.440	0.050	0.100	6.1
SEP									
26...	110	1.9	8800	50	38	0.490	0.050	0.300	--

02388300 HEATH CREEK NEAR ROME, GA.

LOCATION.–Lat 34°21'57", long 85°16'17", Floyd County, Hydrologic Unit 03150103, on upstream left wingwall of bridge on Antioch Church Road, 4 mi upstream from Little Armuchee Creek, and 9.5 mi northwest of Rome.

DRAINAGE AREA.–14.7 mi^2.

PERIOD OF RECORD.–May 1968 to September 1989 (discontinued).

REVISED RECORDS.–WRD GA-80-1: Drainage area. WRD GA-82-1: 1981.

GAGE.–Water-stage recorder. Datum of gage is 643.15 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.–Estimated daily discharges: Sept. 16-30. Records good, except those for periods affected by beaverdams, Oct. 1 to Dec. 30, and Sept. 16-30, which are fair.

AVERAGE DISCHARGE.–21 years, 25.5 ft^3/s, 23.56 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum gage height, 10.03 ft, Mar. 4, 1979 (discharge not determined); minimum daily discharge, 0.54 ft^3/s, Aug. 18, 1988.

EXTREMES FOR CURRENT YEAR.–Maximum gage height, 7.57 ft, Sept. 30, discharge unknown, stage rising, peak occurred Oct. 1, 1989, gage height 7.83 ft; and peak discharges greater than base discharge of 400 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 11	2015	500	5.87	Mar. 5	0145	423	5.36
Feb. 28	0745	*533	*6.07	June 16	1700	436	5.44

Minimum daily discharge, 1.3 ft^3/s, Oct. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.7	14	106	13	195	29	11	4.6	16	14	16
2	3.4	2.5	11	56	12	101	26	9.6	4.5	31	12	37
3	2.7	2.7	10	92	12	72	24	7.0	4.4	101	10	19
4	2.8	10	9.0	65	11	105	100	6.4	4.4	271	8.7	12
5	2.3	7.6	7.9	42	30	310	123	114	5.3	148	7.6	9.1
6	2.0	2.4	7.3	37	65	188	77	104	11	219	6.9	8.2
7	1.5	2.1	6.8	25	78	113	78	49	7.0	109	6.2	7.8
8	1.6	2.0	6.3	31	61	79	100	31	6.2	67	5.6	6.8
9	1.6	2.4	5.8	37	45	59	97	47	8.3	45	5.2	6.1
10	1.9	2.2	5.3	96	36	47	72	49	6.2	33	4.9	6.2
11	1.4	2.3	5.0	281	31	39	55	35	5.3	26	4.7	6.0
12	1.5	1.9	4.5	329	26	33	43	27	4.8	22	4.5	5.8
13	1.4	3.4	4.0	289	22	28	34	20	19	19	4.2	5.1
14	1.4	3.0	3.9	149	19	24	29	17	12	15	4.8	4.8
15	1.4	2.4	4.0	106	17	23	36	16	108	12	7.4	4.6
16	1.5	4.4	4.0	74	15	25	26	12	298	16	5.5	5.2
17	1.3	4.1	3.8	53	13	19	20	9.9	196	19	7.1	4.9
18	1.4	2.5	3.8	41	15	17	18	8.6	80	12	5.5	4.6
19	3.5	2.4	3.6	33	18	15	16	7.7	233	40	4.7	4.4
20	2.7	103	3.4	28	23	15	14	13	255	40	4.4	4.3
21	1.8	41	3.4	22	160	50	12	12	261	28	4.2	4.3
22	1.6	23	3.5	20	101	36	11	8.8	166	48	3.9	4.8
23	1.7	16	5.2	17	66	115	10	9.0	111	128	3.8	4.5
24	1.7	12	6.6	16	48	123	9.6	7.4	73	62	3.7	4.3
25	1.7	10	8.0	14	38	80	10	6.8	51	44	3.9	11
26	1.7	8.7	6.2	13	32	58	7.9	6.2	36	30	32	14
27	1.7	37	7.0	16	101	45	7.3	6.9	28	24	30	7.2
28	1.9	30	9.0	12	471	36	7.9	6.1	23	18	8.7	15
29	2.4	25	8.6	11	—	31	6.4	5.3	20	16	6.3	100
30	2.2	18	21	17	—	49	6.2	5.0	18	15	42	170
31	2.4	—	106	15	—	33	—	4.7	—	12	34	—
TOTAL	59.7	386.7	307.9	2143	1579	2163	1105.3	672.4	2060.0	1686	306.4	513.0
MEAN	1.93	12.9	9.93	69.1	56.4	69.8	36.8	21.7	68.7	54.4	9.88	17.1
MAX	3.5	103	106	329	471	310	123	114	298	271	42	170
MIN	1.3	1.9	3.4	11	11	15	6.2	4.7	4.4	12	3.7	4.3
CFSM	.13	.88	.68	4.70	3.84	4.75	2.50	1.48	4.67	3.70	.67	1.16
IN.	.15	.98	.78	5.42	4.00	5.47	2.80	1.70	5.21	4.27	.78	1.30

CAL YR 1988	TOTAL	3555.63	MEAN	9.71	MAX	434	MIN	.54	CFSM	.66	IN	9.00
WTR YR 1989	TOTAL	12982.40	MEAN	35.6	MAX	471	MIN	1.3	CFSM	2.42	IN	32.85

02388320 HEATH CREEK BELOW ROCKY MOUNTAIN DAMSITE, NEAR ARMUCHEE, GA.

LOCATION.--Lat 34°21'18", long 85°15'50", Floyd County, Hydrologic Unit 03150103, on right bank 0.6 mi downstream from bridge on Antioch Road, 3.4 mi upstream from Little Armuchee Creek, 5.2 mi west of Armuchee, and 9.7 mi northwest of Rome.

DRAINAGE AREA.--16.6 mi^2.

PERIOD OF RECORD.--March 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 637.00 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Estimated daily discharges: Jan. 1-4, Jan. 8-Feb. 14. Records good, except those for the period May 5-16 and those for the periods of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--7 years, 24.7 ft^3/s, 20.21 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 900 ft^3/s, May 8, 1984, gage height, 8.10 ft; minimum daily discharge, 0.65 ft^3/s, Aug. 19, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 28	0545	*589	*6.44	June 16	1445	479	5.78
Mar. 5	0100	466	5.70				

Minimum daily discharge, 1.6 ft^3/s, Oct. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	3.6	17	110	15	205	31	11	6.0	18	18	20
2	3.6	4.3	15	60	14	105	28	10	5.9	32	16	37
3	2.8	5.1	13	94	14	77	26	8.7	5.8	99	14	22
4	2.5	13	12	71	13	121	115	6.8	5.7	276	12	16
5	2.3	12	11	46	33	335	132	115	6.6	144	10	13
6	2.3	5.1	9.7	42	69	201	80	105	14	222	9.6	12
7	1.8	3.5	9.0	31	83	122	82	49	8.8	105	8.4	11
8	1.8	3.1	8.4	31	65	85	107	34	7.8	63	7.4	10
9	1.8	3.3	8.1	37	48	64	102	48	10	44	7.1	9.3
10	2.0	2.9	7.8	100	39	51	74	50	7.7	33	6.8	9.2
11	1.8	3.0	6.9	317	34	43	56	36	6.6	26	6.5	9.0
12	1.9	2.1	6.3	372	29	37	46	30	6.1	22	6.3	8.3
13	1.9	4.5	6.0	326	25	32	38	25	20	20	5.9	7.7
14	2.0	3.6	5.7	160	22	28	32	22	14	17	6.3	7.3
15	2.0	2.6	5.3	110	23	26	39	21	111	14	8.6	7.2
16	1.9	4.1	4.9	78	21	29	29	16	326	17	6.9	7.5
17	1.8	5.5	4.7	57	19	23	25	14	209	20	8.1	6.9
18	2.5	3.3	4.6	45	21	21	23	12	79	13	6.9	6.5
19	4.9	2.9	4.3	36	24	19	20	11	256	40	6.3	6.2
20	1.9	106	4.1	30	29	19	16	16	276	39	5.8	6.1
21	1.9	38	4.0	24	164	56	15	15	285	27	5.5	6.1
22	1.7	24	4.2	22	100	40	13	11	172	58	5.0	7.3
23	1.6	19	6.0	19	67	123	12	11	110	144	4.9	6.7
24	1.7	16	8.2	18	50	129	12	9.7	70	65	4.7	6.0
25	1.7	13	11	16	41	84	11	8.9	50	47	4.9	15
26	1.7	12	8.5	15	36	61	8.6	7.9	36	32	35	20
27	1.8	35	8.0	18	111	47	8.1	8.6	28	25	31	10
28	1.8	31	9.7	14	493	38	8.5	7.8	24	21	9.6	23
29	2.2	26	9.7	13	—	33	6.9	6.9	22	18	7.4	130
30	3.0	21	19	19	—	51	6.7	6.4	20	17	58	255
31	3.3	—	102	17	—	36	—	6.1	—	15	38	—
TOTAL	67.7	428.5	354.1	2348	1702	2341	1202.8	739.8	2199.0	1733	380.9	711.3
MEAN	2.18	14.3	11.4	75.7	60.8	75.5	40.1	23.9	73.3	55.9	12.3	23.7
MAX	4.9	106	102	372	493	335	132	115	326	276	58	255
MIN	1.6	2.1	4.0	13	13	19	6.7	6.1	5.7	13	4.7	6.0
CFSM	.13	.86	.69	4.56	3.66	4.55	2.42	1.44	4.42	3.37	.74	1.43
IN.	.15	.96	.79	5.26	3.81	5.25	2.70	1.66	4.93	3.88	.85	1.59

CAL YR 1988	TOTAL	4090.91	MEAN	11.2	MAX	447	MIN	.65	CFSM	.68	IN	9.17
WTR YR 1989	TOTAL	14208.10	MEAN	38.9	MAX	493	MIN	1.6	CFSM	2.34	IN	31.84

02388500 OOSTANAULA RIVER NEAR ROME, GA.

LOCATION.–Lat 34°18'02", long 85°08'30", Floyd County, Hydrologic Unit 03150103, on left bank 1.2 mi upstream from Dry Creek, 4.5 mi north of Rome, 4.5 mi upstream from confluence with Etowah River, and 6.5 mi downstream from Armuchee Creek.

DRAINAGE AREA.–2,120 mi^2.

PERIOD OF RECORD.–October 1939 to current year. Gage-height records collected at site 4.2 mi downstream since 1890 are contained in reports of National Weather Service.

GAGE.–Water-stage recorder. Datum of gage is 561.70 ft above National Geodetic Vertical Datum of 1929. Oct. 1, 1939, to Dec. 7, 1950, water-stage recorder at site 3.2 mi downstream at same datum. Since Oct. 1, 1939, auxiliary water-stage recorder at Fifth Avenue Bridge, 4.2 mi downstream. Nonrecording gage at site of auxiliary gage used as base gage for records published as Coosa River at Rome, Jan. 1, 1897, to Dec. 31, 1903.

REMARKS.–Estimated daily discharges: Oct. 26, May 12-14. Records fair, except those for estimated daily discharge, which are fair to poor. Flow regulated by Carters Lake and Carters Re-regulation Dam since 1975. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74, are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.–50 years, 3,566 ft^3/s, 22.84 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 47,000 ft^3/s, Jan. 23, 1947; maximum gage height, 35.13 ft, Jan. 22, 1947; minimum daily discharge, 408 ft^3/s, Oct. 25, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known since at least 1834, 40.3 ft in April 1886, at site of present auxiliary gage, from information by Georgia Department of Archives.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, 24,300 ft^3/s, Mar. 7; gage height, 27.96 ft; minimum daily discharge, 441 $ft3/s$, Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	664	594	2540	7110	2340	20800	4560	2410	1510	6330	3230	2370
2	644	603	1950	7930	2140	19700	3610	3160	1520	4960	3210	2350
3	903	592	1630	7620	1990	18300	3060	3360	1450	4870	2920	1950
4	1180	600	1370	6460	1870	17700	4360	2430	1260	9320	2510	1800
5	994	1040	1240	5310	1950	18100	12600	3540	1190	12000	2310	1690
6	819	2350	1240	4290	4870	21200	13000	10800	1560	11100	2040	1650
7	712	3080	1170	4290	8700	23700	12900	10000	2980	10900	1950	1510
8	655	2140	1110	4020	10200	22600	13500	8300	3170	9780	1900	1210
9	563	1360	1070	4600	10000	21000	14200	6070	2560	7440	1790	1180
10	533	1110	1050	7620	7540	17000	13100	5590	2760	5330	1710	1130
11	586	954	911	11000	5210	9590	10800	5680	2940	4590	1510	1120
12	571	886	894	17300	4080	7430	8450	6070	2560	4480	1470	1110
13	481	840	960	18000	3500	6950	7120	5050	2410	4660	1390	1100
14	441	889	918	17900	3330	6340	6280	3590	2400	5380	1320	1050
15	551	994	884	15700	3370	5560	5200	3100	3790	4350	1490	1090
16	620	996	862	13400	3200	5180	4230	2840	9850	3240	1350	1520
17	483	1350	826	10000	3010	4840	3710	2710	15100	2570	1200	2590
18	501	2130	723	6550	2920	4400	3300	2570	14700	2870	1480	1920
19	555	2140	713	5420	3280	3410	3110	2260	13500	2850	1220	1480
20	616	3210	768	4640	4630	2880	3000	2110	14400	3920	1250	1170
21	663	5430	740	3920	8070	3760	2890	1870	16700	3190	1210	1030
22	676	4870	726	3090	13000	4640	2850	2010	18100	3090	1190	1030
23	610	3440	759	2620	12900	6150	2690	1870	17300	7550	1140	1250
24	543	2220	894	2500	11000	9420	2620	1880	16200	6800	1060	2110
25	596	1650	1040	2390	6910	9080	2600	2780	14400	5330	1310	2640
26	611	1450	1090	2300	4990	6860	2550	2450	8990	4060	1240	4430
27	568	1810	1270	2240	5090	5000	2540	2210	7680	3640	1660	6290
28	551	2770	1100	2280	15200	4490	2500	1910	7400	3150	1720	5080
29	560	4220	1020	2050	—	4520	2460	1830	7300	2830	1470	8870
30	515	3590	1090	1910	—	4710	2150	1680	6630	2600	1530	14500
31	515	—	2770	2180	—	4770	—	1540	—	2400	2220	—
TOTAL	19480	59308	35328	206640	165290	320080	175940	113670	222310	165580	53000	78220
MEAN	628	1977	1140	6666	5903	10330	5865	3667	7410	5341	1710	2607
MAX	1180	5430	2770	18000	15200	23700	14200	10800	18100	12000	3230	14500
MIN	441	592	713	1910	1870	2880	2150	1540	1190	2400	1060	1030

CAL YR 1988	TOTAL	534734	MEAN	1461	MAX	18200	MIN	441	MEAN†	1517	CFSM† .72	IN.† 9.78
WTR YR 1989	TOTAL	1614846	MEAN	4424	MAX	23700	MIN	441	MEAN†	4489	CFSM† 2.12	IN.† 28.79

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02388520 OOSTANAULA RIVER AT ROME, GA.

LOCATION.--Lat 34°16'13", long 85°10'24", Floyd County, Hydrologic Unit 03150103, at Southern Railway bridge at pumping station at City of Rome waterworks, 1.2 mi upstream from confluence with Etowah River.

DRAINAGE AREA.--2,150 mi^2, approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Flow regulated by Carters Lake and Carters Re-regulation Dam (see "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400). Laboratory analyses are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Discharge obtained from gaging station 02388500, Oostanaula River near Rome, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
24...	1050	545	153	156	7.50	7.40	14.0	19.0	8.5	84
NOV										
30...	1100	3640	130	130	7.30	7.50	10.5	9.0	10.2	93
DEC										
28...	1320	1100	169	171	7.50	7.80	10.0	10.0	10.4	94
JAN										
26...	1020	2220	130	138	7.10	7.50	8.0	7.0	10.4	89
FEB										
28...	1140	15800	78	82	6.90	7.20	7.5	9.5	11.0	94
MAR										
30...	1045	4720	97	96	7.20	7.40	16.5	22.0	8.8	92
APR										
26...	0950	2530	118	118	7.50	7.30	20.0	26.0	7.5	84
MAY										
24...	1120	1680	--	145	7.40	7.30	22.0	25.0	6.4	--
JUN										
27...	1000	6850	93	99	7.00	7.20	22.5	29.0	6.6	78
JUL										
26...	1145	4320	117	118	7.40	7.10	25.0	30.5	6.2	76
AUG										
30...	1130	1580	131	132	7.20	7.30	26.0	31.0	4.5	57
SEP										
27...	1250	6480	126	128	7.30	7.20	18.0	25.0	8.0	86

02388520 OOSTANAULA RIVER AT ROME, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS TOTAL (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 24...	7.0	16	2.0	--	--	52	6
NOV 30...	80	25	1.8	3300	54	45	74
DEC 28...	16	13	2.4	1100	69	64	9
JAN 26...	10	10	2.4	7900	57	49	4
FEB 28...	80	--	1.6	13000	33	27	85
MAR 30...	18	30	1.1	790	36	34	21
APR 26...	9.0	22	0.9	75	48	43	18
MAY 24...	18	13	1.2	230	60	54	30
JUN 27...	37	10	1.2	220	36	31	54
JUL 26...	36	14	1.7	--	57	43	54
AUG 30...	37	--	1.9	130	50	43	30
SEP 27...	150	--	3.3	4900	50	44	--

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 24...	0.380	0.060	0.34	0.40	0.78	0.250	6.0
NOV 30...	0.420	0.080	0.82	0.90	1.3	0.320	11
DEC 28...	0.450	0.050	0.15	0.20	0.65	0.120	--
JAN 26...	0.620	<0.030	--	0.30	0.92	0.170	3.8
FEB 28...	0.520	<0.030	--	--	--	0.210	5.7
MAR 30...	0.330	<0.030	--	0.30	0.63	0.150	3.1
APR 26...	0.450	<0.030	--	0.50	0.95	0.170	4.6
MAY 24...	0.600	<0.030	--	0.30	0.90	0.170	4.0
JUN 27...	0.360	<0.030	--	0.40	0.76	0.170	3.9
JUL 26...	0.320	0.050	0.45	0.50	0.82	0.130	6.6
AUG 30...	0.620	0.090	--	--	--	0.200	3.2
SEP 27...	0.500	0.040	--	--	--	0.290	--

02388530 OOSTANAULA RIVER AT 5TH AVENUE, AT ROME, GA.

LOCATION.–Lat 34°15'24", long 85°10'18", Floyd County, Hydrologic Unit 03150103, at Fifth Avenue Bridge at Rome, and 0.3 mi upstream from confluence with Etowah River.

DRAINAGE AREA.–2,150 mi^2, approximately.

PERIOD OF RECORD.–October 1939 to current year. October 1971 to current year in reports of U.S. Geological Survey. Gage-height records since 1890 are contained in reports of National Weather Service.

GAGE.–Water-stage recorder. Datum of gage is 561.70 ft above National Geodetic Vertical Datum of 1929.

REMARKS.-Flow regulated by Carters Lake and re-regulation dam since 1975. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400).

EXTREMES FOR PERIOD OF RECORD.–Since October 1939, maximum gage height, 34.5 ft, Jan. 22, 1947. From 1890 to September 1939, maximum gage height, 37.2 ft, Jan. 15, 1892.

EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum gage height since at least 1834, 40.3 ft in April 1886, from information by Georgia Department of Archives.

EXTREMES FOR CURRENT YEAR.–Maximum gage height, 25.13 ft, Mar. 6.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.28	3.14	5.50	8.89	5.26	20.12	8.66	5.48	5.60	12.38	6.91	5.91
2	2.84	3.21	4.95	9.70	5.10	19.43	6.68	7.07	5.93	10.28	7.91	6.30
3	3.07	3.22	4.62	9.70	4.94	18.57	5.94	7.24	4.76	10.54	7.66	4.89
4	4.04	3.22	3.93	8.89	4.81	17.83	7.94	6.27	4.24	13.63	7.19	4.69
5	3.82	3.82	3.83	8.79	4.54	20.94	14.88	7.14	4.15	15.74	6.93	5.18
6	3.53	4.79	4.65	7.69	7.12	24.48	16.46	13.00	5.11	16.91	5.17	5.58
7	3.37	5.53	4.63	7.39	10.48	22.90	16.14	11.87	6.30	17.15	5.01	4.78
8	3.30	5.05	4.56	6.50	11.58	21.58	16.19	10.51	6.58	15.97	6.00	5.14
9	2.67	4.27	4.52	7.01	11.45	20.70	15.44	9.40	5.98	13.93	5.43	5.03
10	2.55	3.98	4.41	10.14	10.00	19.33	15.02	9.13	6.07	12.12	4.67	3.82
11	3.13	3.82	3.38	12.72	8.02	14.53	15.05	9.27	5.72	11.40	5.52	3.80
12	3.18	3.73	3.36	16.71	6.57	10.23	13.38	—	5.39	11.22	5.49	4.72
13	2.54	3.32	4.13	17.91	6.13	10.10	12.24	—	5.97	11.57	4.25	4.67
14	2.39	3.31	4.10	17.76	6.08	11.41	10.77	—	5.88	11.71	4.18	4.63
15	3.55	3.88	4.06	15.55	6.15	10.87	9.82	6.05	7.73	10.03	6.32	4.44
16	2.72	4.02	4.04	13.83	6.01	10.62	7.78	7.00	13.01	6.46	5.08	5.07
17	2.52	4.31	3.98	11.69	5.54	10.30	7.26	6.88	16.34	8.98	6.11	5.59
18	3.06	4.97	3.10	10.07	5.51	9.67	7.45	6.30	15.50	9.54	5.67	4.87
19	3.18	5.01	3.06	9.13	5.81	6.38	7.18	6.36	15.61	8.86	5.57	4.74
20	3.21	5.84	3.61	8.55	7.15	5.75	7.00	6.28	17.58	10.41	4.11	4.32
21	3.35	7.44	3.59	7.62	10.58	7.37	6.83	4.82	21.28	9.48	4.03	4.13
22	3.34	7.35	3.58	6.23	14.43	8.46	6.49	4.96	21.93	10.07	5.36	4.16
23	2.76	6.28	3.61	5.58	13.63	9.95	5.61	5.34	20.82	14.98	5.32	4.39
24	2.61	5.21	3.77	6.27	12.25	12.69	5.52	4.73	19.15	12.74	5.28	4.89
25	3.11	4.25	3.55	6.18	9.33	11.98	6.26	6.00	17.21	11.15	5.47	5.57
26	—	4.41	3.54	6.11	7.47	10.04	6.22	5.74	15.95	9.63	5.77	8.31
27	3.12	4.45	4.13	6.07	7.91	8.59	6.19	5.52	14.13	9.01	5.32	9.25
28	3.10	5.22	4.02	5.75	17.51	8.80	6.35	4.76	13.78	8.50	5.20	9.03
29	3.11	6.82	3.91	4.66	—	8.82	6.53	4.70	13.90	8.13	5.25	12.30
30	2.59	6.41	4.05	4.60	—	8.95	5.09	4.94	13.45	5.82	5.09	17.29
31	2.55	—	5.59	5.04	—	8.96	—	4.78	—	5.65	6.07	—
MEAN	—	4.68	4.06	9.12	8.26	13.24	9.41	—	11.17	11.10	5.59	5.92
MAX	—	7.44	5.59	17.91	17.51	24.48	16.46	—	21.93	17.15	7.91	17.29
MIN	—	3.14	3.06	4.60	4.54	5.75	5.09	—	4.15	5.65	4.03	3.80

02389000 ETOWAH RIVER NEAR DAWSONVILLE, GA.

LOCATION.--Lat 34°22'57", long 84°03'21", Dawson County, Hydrologic Unit 03150104, at bridge on State Highway 53, 4 mi southeast of Dawsonville. The stilling well for the discontinued gage is located on the left bank, 0.5 mi upstream from the bridge.
DRAINAGE AREA.--107 mi^2.
PERIOD OF RECORD.--November 1970 to current year. Water-discharge records for water years 1940-76 are published in reports of the U.S. Geological Survey.
REVISED RECORDS.--WDR GA-80-1: Drainage area.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
APR									
27...	0600	257	21	21	6.87	7.70	18.0	8.2	90
JUL									
27...	0600	375	19	20	6.96	7.50	20.0	8.2	93

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
APR										
27...	--	3.0	6	1.3	0.71	1.5	32	0.3	0.70	8.0
JUL										
27...	--	12	5	1.2	0.55	1.3	31	0.2	0.70	7.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
APR												
27...	<1.0	0.90	<0.10	8.8	14	--	--	--	<0.100	<0.100	0.010	0.010
JUL												
27...	<1.0	0.90	<0.10	9.0	26	--	--	--	0.200	0.140	0.010	0.010

02389000 ETOWAH RIVER NEAR DAWSONVILLE, GA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN DISSOLVED (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	PHOSPHOROUS DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)
APR 27...	--	--	<0.20	<0.20	--	--	0.010	<0.010	1.5	20	<1	<1
JUL 27...	0.19	0.19	0.20	0.20	0.40	0.34	0.030	0.010	2.3	20	<1	<1

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)
APR 27...	<1	<1	<1	79	<5	<5	17	<0.10	<0.1	<1	7
JUL 27...	<1	1	1	100	2	<1	10	<0.10	<0.1	<1	<3

02392000 ETOWAH RIVER AT CANTON, GA.

LOCATION.--Lat 34°14'23", long 84°29'47", Cherokee County, Hydrologic Unit 03150104, on left bank 100 ft downstream from bridge on State Highway 5 spur and 140 at Canton, 0.8 mi upstream from Canton Creek, and 1.8 mi downstream from Hickory Log Creek.

DRAINAGE AREA.--613 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1892 to September 1905 (prior to October 1896, gage heights only), October 1936 to current year. Monthly discharge only for January to March 1896, published in WSP 1304. Gage heights collected at same site since 1892 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1906: 1946(M). WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 844.55 ft above National Geodetic Vertical Datum of 1929. March 1892 to December 1905, nonrecording gage at site 100 ft upstream at datum 2.0 ft higher. Mar. 16, 1937 to Jan. 17, 1939, nonrecording gage at site 100 ft upstream at present datum. Water-stage recorder at Allatoona Reservoir is used as an auxiliary gage for this station during periods of backwater caused by Allatoona Reservoir.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--62 years (water years 1897-1905, 1937-89), 1,222 ft^3/s, 27.07 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,300 ft^3/s, Jan. 7, 1946, gage height, 26.7 ft; minimum discharge, 120 ft^3/s, July 23, 24, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 36,700 ft^3/s, January 1892, gage height, 25.0 ft, present datum, from National Weather Service. Maximum stage known since 1892, Jan. 7, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 11,100 ft^3/s, Sept. 30, stage rising, peak occurred Oct. 2, 1989; and peak discharges greater than base discharge of 6,500 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 28	1900	6,540	12.49
Mar. 5	1600	7,590	13.79
June 21	2100	9,080	15.46

Minimum discharge, 227 ft^3/s, Oct. 1, gage height, 1.34 ft.

02392000 ETOWAH RIVER AT CANTON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246	335	510	1680	629	3730	1110	1070	671	1310	1020	660
2	1080	342	480	1560	608	2130	1050	1330	661	1240	1500	662
3	1860	314	465	1640	591	1700	1040	1090	716	1300	1300	631
4	2060	303	447	1650	580	1600	1220	952	797	1900	1010	585
5	1010	589	428	1140	623	6010	2120	982	977	2040	903	557
6	612	838	412	990	1050	3870	1960	1400	1170	2570	844	573
7	470	583	401	1080	1190	2750	1620	1240	965	2890	810	635
8	405	468	399	914	1150	2120	1680	1040	798	2140	770	612
9	365	425	395	900	907	1770	2560	1370	845	1660	755	582
10	346	406	383	1200	788	1590	2030	1820	990	1450	736	561
11	328	393	368	1500	738	1460	1680	1440	818	1340	726	566
12	317	386	357	2320	706	1390	1510	1240	720	1240	720	586
13	295	374	348	2510	673	1320	1410	1100	822	1230	707	563
14	283	376	345	2160	659	1270	1350	1030	958	1150	703	549
15	284	365	345	1660	639	1250	1370	1030	1930	1060	927	552
16	283	356	344	1500	622	1210	1390	984	3000	1110	1250	662
17	280	389	336	1280	609	1160	1280	905	2700	1350	1010	696
18	279	438	329	1130	728	1120	1210	865	1720	1150	867	575
19	312	391	323	1020	906	1130	1180	841	1350	1080	778	545
20	372	398	329	923	1100	1080	1150	909	2800	1550	740	530
21	340	597	333	844	2640	1450	1120	978	7740	1580	709	523
22	398	570	336	789	3010	1590	1090	875	6560	1520	687	1230
23	367	466	345	751	1750	1580	1050	911	4490	1410	663	1490
24	323	430	390	730	1350	2230	1020	1070	3230	1290	646	872
25	306	403	625	697	1160	1770	995	857	2630	1170	637	838
26	291	388	578	664	1050	1490	961	803	2210	1150	859	2100
27	291	459	447	682	1040	1360	934	781	1890	1240	1310	1500
28	286	790	409	678	4580	1270	920	779	1640	1080	901	1230
29	287	695	432	632	—	1220	936	724	1480	967	727	2550
30	287	563	446	636	—	1210	933	702	1400	939	704	4600
31	293	—	868	662	—	1200	—	691	—	1330	696	—
TOTAL	14956	13830	12953	36522	32076	56030	39879	31809	58678	44436	26615	28815
MEAN	482	461	418	1178	1146	1807	1329	1026	1956	1433	859	961
MAX	2060	838	868	2510	4580	6010	2560	1820	7740	2890	1500	4600
MIN	246	303	323	632	580	1080	920	691	661	939	637	523
CFSM	.79	.75	.68	1.92	1.87	2.95	2.17	1.67	3.19	2.34	1.40	1.57
IN.	.91	.84	.79	2.22	1.95	3.40	2.42	1.93	3.56	2.70	1.62	1.75

CAL YR 1988	TOTAL	206799	MEAN	565	MAX	7980	MIN	170	CFSM	.92	IN	12.55
WTR YR 1989	TOTAL	396599	MEAN	1087	MAX	7740	MIN	246	CFSM	1.77	IN	24.07

02392000 ETOWAH RIVER AT CANTON, GA.–Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.40	1.72	2.13	4.43	2.38	8.30	3.27	3.20	2.47	3.63	3.13	2.44
2	3.23	1.74	2.06	4.18	2.33	5.33	3.18	3.69	2.44	3.48	4.08	2.45
3	4.81	1.66	2.03	4.34	2.30	4.48	3.15	3.24	2.56	3.61	3.63	2.38
4	5.20	1.62	1.98	4.37	2.27	4.27	3.49	3.00	2.71	4.88	3.11	2.28
5	3.11	2.31	1.94	3.32	2.36	11.64	5.32	3.05	3.05	5.15	2.91	2.22
6	2.37	2.80	1.90	3.07	3.16	8.63	5.00	3.84	3.37	6.20	2.81	2.26
7	2.06	2.29	1.88	3.22	3.40	6.57	4.31	3.52	3.02	6.84	2.74	2.39
8	1.90	2.03	1.87	2.93	3.33	5.33	4.43	3.16	2.72	5.36	2.66	2.34
9	1.80	1.94	1.86	2.91	2.92	4.63	6.19	3.81	2.81	4.40	2.63	2.28
10	1.75	1.89	1.83	3.46	2.70	4.26	5.15	4.72	3.07	3.96	2.60	2.23
11	1.70	1.86	1.79	4.06	2.60	3.99	4.44	3.93	2.76	3.71	2.58	2.24
12	1.67	1.84	1.76	5.70	2.54	3.81	4.09	3.49	2.57	3.49	2.57	2.28
13	1.60	1.80	1.73	6.08	2.47	3.67	3.87	3.26	2.76	3.47	2.54	2.23
14	1.57	1.81	1.73	5.41	2.44	3.55	3.72	3.14	3.01	3.34	2.53	2.20
15	1.57	1.78	1.72	4.41	2.40	3.50	3.77	3.14	4.93	3.19	2.95	2.21
16	1.57	1.76	1.72	4.06	2.36	3.44	3.82	3.06	7.06	3.28	3.53	2.44
17	1.56	1.84	1.70	3.58	2.33	3.36	3.57	2.92	6.46	3.73	3.10	2.52
18	1.55	1.96	1.68	3.30	2.58	3.29	3.44	2.84	4.52	3.34	2.85	2.26
19	1.65	1.85	1.66	3.11	2.92	3.30	3.39	2.80	3.74	3.23	2.68	2.19
20	1.82	1.87	1.68	2.95	3.27	3.22	3.34	2.92	6.39	4.17	2.61	2.16
21	1.73	2.32	1.69	2.81	6.32	3.95	3.29	3.05	13.93	4.22	2.54	2.14
22	1.88	2.27	1.70	2.70	7.06	4.25	3.24	2.86	12.46	4.11	2.50	3.56
23	1.80	2.03	1.73	2.63	4.58	4.23	3.18	2.93	9.61	3.86	2.45	4.03
24	1.68	1.94	1.85	2.58	3.74	5.54	3.13	3.20	7.51	3.60	2.41	2.85
25	1.64	1.88	2.37	2.52	3.35	4.61	3.08	2.83	6.31	3.37	2.40	2.78
26	1.59	1.84	2.28	2.45	3.17	4.05	3.02	2.73	5.50	3.34	2.83	5.26
27	1.59	2.01	1.98	2.49	3.15	3.75	2.97	2.69	4.87	3.49	3.66	4.04
28	1.58	2.71	1.90	2.48	9.44	3.56	2.94	2.68	4.36	3.22	2.91	3.53
29	1.58	2.52	1.95	2.38	—	3.44	2.97	2.57	4.02	3.03	2.58	6.17
30	1.58	2.25	1.98	2.39	—	3.44	2.97	2.53	3.85	2.98	2.53	9.31
31	1.60	—	2.82	2.45	—	3.43	—	2.51	—	3.71	2.52	—
MEAN	2.00	2.00	1.90	3.44	3.35	4.61	3.72	3.14	4.83	3.92	2.82	2.99
MAX	5.20	2.80	2.82	6.08	9.44	11.64	6.19	4.72	13.93	6.84	4.08	9.31
MIN	1.40	1.62	1.66	2.38	2.27	3.22	2.94	2.51	2.44	2.98	2.40	2.14

CAL YR 1988 MEAN 2.16 MAX 14.12 MIN 1.14
WTR YR 1989 MEAN 3.23 MAX 13.93 MIN 1.40

02392000 ETOWAH RIVER AT CANTON, GA.–Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.–March 1968 to current year.
PERIOD OF DAILY RECORD.–
WATER TEMPERATURES: June 1971 to September 1976.
REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.–
WATER TEMPERATURES: Maximum, 26.0°C July 24, 1972; minimum recorded, 2.5°C Dec. 26, 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
DEC										
27...	0920	453	43	48	7.41	7.10	7.0	11.0	12.5	105
MAR										
29...	0900	1210	38	38	6.91	6.90	16.0	20.5	8.9	93
JUN										
28...	0840	1670	40	39	6.80	7.00	21.5	26.5	7.6	89
SEP										
26...	1050	2370	49	49	7.30	7.00	16.0	19.0	8.5	89

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC								
27...	27	2.0	130	15	0.210	0.050	0.060	2.6
MAR								
29...	11	2.1	20	12	0.250	0.080	0.840	3.1
JUN								
28...	21	0.8	80	14	0.240	<0.030	0.100	2.9
SEP								
26...	66	1.4	3300	14	0.230	<0.030	0.160	–

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.

LOCATION.–Lat 34°09'47", long 84°44'28", Bartow County, Hydrologic Unit 03150104, on right bank 0.8 mi downstream from Allatoona Dam, 2 mi upstream from Nashville, Chattanooga, & St. Louis Railway bridge, and 3 mi east of Cartersville.

DRAINAGE AREA.–1,120 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–September 1938 to current year. Prior to October 1949, published as Etowah River above Cartersville.

REVISED RECORDS.–WSP 1032: 1944. WDR GA-80-1: Drainage area.

GAGE.–Water-stage recorder. Datum of gage is 686.92 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Dec. 19, 1938, nonrecording gage at same site and datum.

REMARKS.–No estimated daily discharges. Records good. Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.–51 years, 1,876 ft^3/s, 22.75 in/yr, adjusted for storage since 1950.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 40,400 ft^3/s, Jan. 8, 1946, gage height 20.8 ft, from rating curve extended above 26,000 ft^3/s; minimum daily discharge, 152 ft^3/s, Oct. 15, 1966.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, 8,710 ft^3/s, Jan. 2, gage height, 7.12 ft; minimum daily discharge, 264 ft^3/s, Feb. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	343	892	1000	353	934	2470	324	1550	2710	3580	2600	1880
2	343	897	995	1010	920	3390	324	1560	905	3400	2590	324
3	993	902	335	976	925	3400	1840	1580	306	3400	2580	324
4	988	903	333	1970	281	295	1870	1560	302	3400	2590	1250
5	983	326	1670	1960	280	295	1860	1570	1230	4780	322	1890
6	977	324	1680	1950	911	340	3440	329	1220	5860	319	931
7	981	909	1660	335	910	1860	3440	333	1230	5840	1930	1870
8	334	897	1680	343	901	3400	331	1220	1230	6050	1260	1880
9	337	893	1680	2270	912	5000	324	1210	1210	5880	300	332
10	980	889	328	2260	1890	5030	4170	1220	293	5880	1910	333
11	989	889	336	2230	271	282	4180	1210	296	5890	1900	1590
12	345	315	1340	2260	266	287	4180	2410	1220	5920	298	1570
13	343	315	1330	2240	892	4440	2620	324	1220	5940	305	1570
14	1660	978	1340	335	851	4440	2600	324	1220	5320	2890	1190
15	342	979	1350	333	890	4450	316	2190	1230	313	1080	760
16	343	985	1350	333	264	4460	315	2190	1220	319	2880	346
17	1000	990	333	2860	276	4480	1830	1580	292	4030	2220	353
18	1000	979	333	2860	271	307	1840	2190	2150	4070	2220	954
19	971	311	967	2870	271	306	1830	2190	4020	4130	306	961
20	965	314	953	2860	921	1220	1830	316	4070	4110	306	956
21	963	987	959	1250	944	1220	1840	315	1240	4740	2220	953
22	315	994	952	313	910	1230	333	1090	1200	2850	2220	944
23	315	988	969	2200	900	2590	334	324	1940	2210	2210	333
24	863	316	344	2210	887	1230	1550	1080	2690	3470	2220	337
25	889	991	343	2220	280	321	1560	1070	5140	3490	2220	1290
26	884	316	969	2220	285	321	1560	1070	7640	3510	319	1260
27	886	321	953	2220	3460	1870	1860	303	6410	3520	315	2180
28	894	999	964	291	485	1870	2190	308	6470	3550	1240	1260
29	333	982	978	295	—	1840	334	914	6460	365	1240	4400
30	332	985	964	923	—	1850	333	908	6440	354	1700	386
31	896	—	347	924	—	1850	—	2290	—	1300	1250	—
TOTAL	22787	22766	29735	47674	22188	66344	51358	36728	73204	117471	47960	34607
MEAN	735	759	959	1538	792	2140	1712	1185	2440	3789	1547	1154
MAX	1660	999	1680	2870	3460	5030	4180	2410	7640	6050	2890	4400
MIN	315	311	328	291	264	282	315	303	292	313	298	324
MEAN†	785	673	562	1740	1908	2852	2009	1403	3272	3020	1275	1887
CFSM†	.70	.60	.50	1.55	1.71	2.55	1.80	1.25	2.92	2.70	1.14	1.69
IN.†	.81	.67	.58	1.79	1.78	2.94	2.01	1.44	3.26	3.11	1.31	1.89

CAL YR 1988	TOTAL	294989	MEAN	806	MAX	5500	MIN	272	MEAN†	834	CFSM† .75	IN† 10.18
WTR YR 1989	TOTAL	572822	MEAN	1569	MAX	7640	MIN	264	MEAN†	1779	CFSM† 1.59	IN† 21.59

†ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
NOV 30...	0910	324	63	63	--	7.30	13.5	9.5	9.8	96
JAN 26...	0810	8140	61	63	6.60	7.20	8.0	7.0	11.0	94
MAR 30...	1500	324	56	53	6.70	7.20	12.0	21.0	8.8	84
MAY 24...	1320	6700	--	54	6.80	6.90	16.0	28.5	6.9	--
JUL 25...	0730	324	54	52	6.70	6.80	21.5	24.0	4.0	--
SEP 27...	1450	343	55	55	7.00	6.70	23.5	22.0	7.3	87

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)
NOV 30...	3.0	1.0	50	19	<1	0.260	<0.030	0.060	1.9	150	36
JAN 26...	4.0	2.3	<20	17	<1	0.360	0.040	0.120	2.0	180	18
MAR 30...	8.0	0.7	<20	15	2	0.340	<0.030	0.060	2.6	540	25
MAY 24...	10	1.2	130	15	15	0.320	<0.030	0.060	2.6	1000	50
JUL 25...	8.0	0.4	35	16	6	0.180	0.080	0.100	2.4	--	--
SEP 27...	6.0	1.5	790	17	5	0.040	0.100	0.110	--	--	--

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.

LOCATION.--Lat 34°11'28", long 84°55'44", Bartow County, Hydrologic Unit 03150104, at bridge on Hardin Bridge Road, 1,000 ft downstream from Ashpole Creek, and 3 mi north of Euharlee.

DRAINAGE AREA.--1,610 mi^2.

PERIOD OF RECORD.--August 1974 to current year.

REVISED RECORDS.--WDR GA-80-1: Drainage area.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Allatoona Reservoir (see "Lakes and Reservoirs in Mobile River Basin", station 02393500).

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
24...	0940	500	90	90	7.20	7.30	16.5	18.0	8.1	85
NOV										
30...	1000	--	83	82	--	7.50	12.5	9.5	9.8	94
DEC										
28...	1430	550	125	126	7.60	7.80	11.0	10.0	10.6	98
JAN										
26...	0900	780	89	89	--	7.50	8.5	6.0	10.9	94
FEB										
28...	1030	3100	100	99	--	7.40	8.0	13.5	11.4	99
MAR										
30...	0915	1900	102	98	7.00	7.50	12.5	21.0	9.8	94
APR										
26...	0840	860	110	112	7.30	7.40	14.5	23.0	8.8	88
MAY										
24...	1240	580	161	165	7.90	7.80	21.0	27.0	9.2	106
JUN										
27...	0900	3050	78	76	6.70	7.10	19.0	27.0	7.4	81
JUL										
27...	0845	1400	95	97	7.20	7.10	22.0	25.5	6.5	75
AUG										
30...	1300	1050	128	129	7.30	7.30	24.0	32.0	5.8	70
SEP										
27...	1400	4400	111	111	7.40	7.10	19.5	23.0	7.2	80

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS TOTAL (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT							
24...	5.0	9	1.8	--	24	26	3
NOV							
30...	5.0	10	1.6	80	33	26	1
DEC							
28...	4.0	8	1.5	50	45	35	<1
JAN							
26...	5.0	8	2.3	60	33	27	<1
FEB							
28...	100	21	1.4	4600	36	32	100
MAR							
30...	10	48	1.0	170	33	33	7
APR							
26...	7.0	21	0.7	140	42	34	6
MAY							
24...	8.0	12	1.2	210	66	55	9
JUN							
27...	9.0	10	0.7	790	24	26	15
JUL							
27...	10	10	0.4	--	42	32	11
AUG							
30...	8.0	--	2.0	490	54	41	7
SEP							
27...	91	--	2.4	1300	44	38	104

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
24...	0.210	0.060	0.14	0.20	0.41	0.080	2.8
NOV							
30...	0.340	0.050	0.25	0.30	0.64	0.090	1.9
DEC							
28...	0.380	0.030	0.07	0.10	0.48	0.050	8.7
JAN							
26...	0.410	0.140	0.16	0.30	0.71	0.120	3.0
FEB							
28...	0.780	0.080	0.92	1.0	1.8	0.290	5.9
MAR							
30...	0.460	0.030	0.27	0.30	0.76	0.080	2.8
APR							
26...	0.500	0.030	0.27	0.30	0.80	0.090	6.2
MAY							
24...	0.540	<0.030	--	0.20	0.74	0.460	2.1
JUN							
27...	0.350	<0.030	--	0.30	0.65	0.080	1.9
JUL							
27...	0.380	0.080	0.32	0.40	0.78	0.080	4.0
AUG							
30...	0.330	0.090	--	--	--	0.040	4.6
SEP							
27...	0.320	<0.030	--	--	--	0.190	--

02395000 ETOWAH RIVER NEAR KINGSTON, GA.

LOCATION.–Lat 34°12'24", long 84°58'44", Bartow County, Hydrologic Unit 03150104, on downstream side of center pier of bridge on U.S. Highway 411, 1 mi upstream from Two Run Creek, 1.5 mi upstream from Connesena Creek, and 2.5 mi southwest of Kingston.

DRAINAGE AREA.–1,630 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–July 1928 to December 1931, October 1936 to current year. Monthly discharge only for July 1928, published in WSP 1304, 1734.

REVISED RECORDS.–WSP 1304: 1929-30.

GAGE.–Water-stage recorder. Datum of gage is 609.97 ft above National Geodetic Vertical Datum of 1929 (Dixie Construction Co. benchmark). Prior to Aug. 11, 1928, nonrecording gage, Aug. 11, 1928 to Dec. 28, 1931, water-stage recorder, Nov. 16, 1936 to June 15, 1937, nonrecording gage, and June 16, 1937 to June 27, 1960, water-stage recorder, all 500 ft upstream at same datum.

REMARKS.–Estimated daily discharges: Sept. 3, 9-11 Records good, except those for the periods Aug. 12-14, 19-26, 28, and Sept. 2-14, which are fair. Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.) Records of chemical analyses for the water years 1970-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.–56 years (water years 1929-31, 1937-89), 2,530 ft^3/s, 21.08 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 42,700 ft^3/s, Apr. 9, 1938, gage height, 27.7 ft; minimum daily, 268 ft^3/s, Oct. 19, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known, about 31 ft, Dec. 11, 1919, from information by local resident, discharge, 52,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, 10,500 ft^3/s, June 20, gage height, 11.69 ft; minimum daily discharge, 382 ft^3/s, Oct. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	962	948	1090	704	1120	3780	1670	1540	2380	5070	2320	2020
2	452	961	1090	696	1140	3690	766	2270	1860	3820	3310	1290
3	617	955	1040	1230	1110	3980	1350	2030	1090	3950	3120	680
4	1270	945	443	1510	1090	2680	2340	1910	687	4040	3030	1220
5	1140	1090	1070	3000	545	6080	4460	1940	1070	4280	1810	1940
6	1060	553	1700	2150	1200	4670	5010	1330	1580	6950	835	1720
7	1010	522	1710	1160	1300	2670	4430	789	1570	6920	1780	1750
8	1020	997	1720	554	1370	4390	2820	1350	1550	6730	1340	2140
9	398	985	1720	1170	1310	5190	2070	1790	1530	6320	1690	1250
10	407	967	1070	2420	2060	5390	4060	2150	1100	6250	1690	640
11	999	982	432	2540	634	2730	4620	2300	617	6210	2230	1350
12	1010	950	1060	2560	615	982	4700	2640	1010	6230	1250	1870
13	382	443	1380	2900	1180	2970	3620	1470	1550	6240	727	1870
14	458	443	1380	2420	734	4660	3130	809	1560	5730	2100	1570
15	1510	1060	1370	901	1010	4660	1990	1250	2450	3020	2510	1570
16	405	1050	1400	801	1150	4640	966	2610	2870	1210	2430	1400
17	406	1040	766	1640	568	4610	1800	2500	2220	6970	3030	881
18	1040	1070	417	3190	578	2510	2350	1920	2230	5350	2520	930
19	994	1020	840	2970	655	761	2330	2440	3500	4980	1310	1270
20	1000	450	925	2970	1360	1060	2300	1890	5870	5450	726	1250
21	1030	472	1030	2170	2660	1780	2270	713	7730	5470	1900	1240
22	1020	1070	1040	1060	2840	2090	1390	1370	5770	5520	2450	1310
23	410	1080	1030	1740	1790	3740	782	825	4930	5650	2440	1070
24	401	1070	747	2300	1510	2320	1300	1300	4070	4950	2400	630
25	941	428	468	2320	807	1910	1910	1390	5010	4620	2470	1210
26	909	1050	721	2330	759	1100	1880	1370	8060	4410	1320	3230
27	915	473	1060	2360	2190	1610	1910	703	6850	4230	1000	1990
28	926	506	1050	1150	4500	2400	2240	617	6820	4160	1280	2890
29	892	1100	1070	531	—	2380	1830	804	6960	2610	1620	4600
30	387	1080	1070	1140	—	2350	679	1190	6870	967	2060	3490
31	398	—	855	538	—	2380	—	2250	—	1640	1690	—
TOTAL	24769	25760	32764	55125	37785	96163	72973	49460	101364	149947	60388	50271
MEAN	799	859	1057	1778	1349	3102	2432	1595	3379	4837	1948	1676
MAX	1510	1100	1720	3190	4500	6080	5010	2640	8060	6970	3310	4600
MIN	382	428	417	531	545	761	679	617	617	967	726	630

CAL YR 1988	TOTAL	373493	MEAN	1020	MAX	6830	MIN	327	MEAN†	1048	CFSM†	.64	IN†	8.69
WTR YR 1989	TOTAL	756769	MEAN	2073	MAX	8060	MIN	382	MEAN†	2283	CFSM†	1.40	IN†	19.01

†ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

02395000 ETOWAH RIVER NEAR KINGSTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1969 to June 1974. April 1981 to September 1989 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT						
13...	1445	84213	360	18.0	3	2.9
13...	1450	84213	360	18.0	4	3.9
NOV						
22...	1715	84213	449	14.0	4	4.8
22...	1720	84213	449	14.0	4	4.8
FEB						
13...	1044	84213	529	9.0	4	5.7
13...	1049	84213	529	9.0	5	7.1
28...	1226	84213	3240	--	77	674
APR						
03...	1014	84213	761	14.5	6	12
03...	1019	84213	761	14.5	6	12
JUN						
19...	1515	84213	1260	20.0	61	208
19...	1520	84213	1260	20.0	57	194
JUL						
31...	1445	84213	1000	26.0	4	11
31...	1450	84213	1000	26.0	6	16

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	DISCHARGE, INST. CUBIC FEET PER SECOND	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
FEB								
28...	1221	84213	3240	81	88	95	98	100
28...	1226	84213	3240	87	--	--	--	--

02395000 ETOWAH RIVER NEAR KINGSTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
MAR							
01...	1001	84213	2560	<1	<1	2	16
01...	1002	84213	2560	<1	<1	4	14
01...	1003	84213	2560	<1	<1	4	23
01...	1004	84213	2560	<1	3	28	70
SEP							
27...	1156	84213	982	2	14	67	96
27...	1157	84213	982	<1	1	15	50
27...	1158	84213	982	<1	<1	<1	<1
27...	1159	84213	982	1	7	43	94

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAR						
01...	71	98	100	--	--	--
01...	30	49	78	98	100	--
01...	78	96	100	100	--	--
01...	96	99	100	--	--	--
SEP						
27...	100	100	--	--	--	--
27...	79	91	98	100	--	--
27...	<1	<1	<1	2	6	23
27...	100	100	100	--	--	--

02395120 TWO RUN CREEK NEAR KINGSTON, GA.

LOCATION.–Lat 34°14'34", long 84°53'23", Bartow County, Hydrologic Unit 03150104, on right bank 200 ft upstream from bridge on State Highway 293, 1.9 mi upstream from Limekiln Branch, and 3 mi east of Kingston.

DRAINAGE AREA.–33.1 mi^2.

PERIOD OF RECORD.–May 1980 to current year.

GAGE.–Water-stage recorder. Elevation of gage is 730 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.–No estimated daily discharges. Records good, except those less than 10 ft^3/s, which are fair.

AVERAGE DISCHARGE.–9 years, 36.7 ft^3/s, 15.06 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 3,180 ft^3/s, Feb. 3, 1982, gage height, 7.91 ft; minimum daily discharge, 4.5 ft^3/s, Oct. 12, 1989.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 28	1030	892	5.56	Mar. 6	0530	767	5.27
Mar. 5	0230	*2,170	*7.10	Sept. 29	0200	609	4.78

Minimum daily discharge, 4.5 ft^3/s, Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	10	10	26	18	176	34	46	16	39	193	27
2	17	10	8.9	18	18	121	32	37	14	38	122	27
3	10	8.4	10	36	17	94	33	28	15	57	67	24
4	7.7	6.9	8.2	29	17	218	73	27	14	103	49	24
5	7.7	14	8.3	20	21	940	213	45	16	84	43	22
6	5.5	11	9.4	21	30	496	116	59	19	161	37	21
7	6.2	8.0	7.9	22	55	171	113	45	15	117	34	23
8	5.4	6.5	8.8	19	43	121	130	38	14	76	32	21
9	5.8	8.0	8.9	22	38	94	134	69	17	57	33	21
10	4.7	8.1	8.0	38	33	77	96	67	13	47	29	23
11	4.7	5.9	7.4	103	32	69	74	53	13	40	29	23
12	4.5	7.2	8.5	106	28	66	63	43	12	38	30	21
13	4.8	7.6	8.4	141	27	60	55	40	35	38	27	20
14	6.6	8.0	7.4	85	25	53	50	34	20	36	27	19
15	5.9	5.3	7.1	65	23	49	55	35	70	32	29	52
16	5.5	6.7	7.1	49	23	47	47	29	133	56	28	44
17	7.3	13	8.6	43	21	43	43	29	91	54	27	26
18	5.5	11	9.1	35	37	42	39	26	54	36	26	23
19	7.0	9.6	7.5	31	41	39	37	27	61	49	25	24
20	7.2	13	7.5	30	47	39	36	29	80	67	24	20
21	13	12	8.9	27	184	56	34	27	267	49	26	21
22	10	9.7	7.4	25	119	48	34	27	231	44	23	25
23	8.6	8.9	8.3	24	78	87	31	28	161	72	22	23
24	11	8.0	9.2	22	58	118	29	24	104	56	23	20
25	8.7	8.9	9.3	21	49	87	29	24	74	49	29	115
26	8.0	8.7	8.3	21	44	63	26	20	61	62	43	112
27	9.2	18	8.9	21	86	54	26	22	53	48	65	54
28	11	14	7.7	19	627	45	28	19	45	38	31	172
29	9.0	11	7.8	19	—	42	25	19	46	35	28	355
30	6.8	9.9	12	19	—	41	25	17	42	35	28	336
31	7.6	—	22	20	—	37	—	17	—	83	28	—
TOTAL	238.0	287.3	276.8	1177	1839	3693	1760	1050	1806	1796	1257	1738
MEAN	7.68	9.58	8.93	38.0	65.7	119	58.7	33.9	60.2	57.9	40.5	57.9
MAX	17	18	22	141	627	940	213	69	267	161	193	355
MIN	4.5	5.3	7.1	18	17	37	25	17	12	32	22	19
CFSM	.23	.29	.27	1.15	1.99	3.60	1.77	1.02	1.82	1.75	1.22	1.75
IN.	.27	.32	.31	1.32	2.07	4.15	1.98	1.18	2.03	2.02	1.41	1.95

CAL YR 1988	TOTAL	6182.4	MEAN	16.9	MAX	360	MIN	4.5	CFSM	.51	IN	6.95
WTR YR 1989	TOTAL	16918.1	MEAN	46.4	MAX	940	MIN	4.5	CFSM	1.40	IN	19.01

02396000 ETOWAH RIVER AT ROME, GA.

LOCATION.–Lat 34°15'26", long 85°09'30", Floyd County, Hydrologic Unit 03150104, on downstream side of center pier of Southern Railway bridge in Rome, 1,800 ft upstream from U.S. Highway 27 (revised), and 2 mi upstream from confluence with Oostanaula River.

DRAINAGE AREA.–1,820 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–July to December 1903, August 1904 to June 1921 (published as "near Rome"), October 1938 to current year. Monthly discharge only for July to December 1903, published in WSP 1304.

REVISED RECORDS.–WDR GA-80-1: Drainage area.

GAGE.–Water-stage recorder. Datum of gage is 561.70 ft above National Geodetic Vertical Datum of 1929. July 1 to Dec. 31, 1903, nonrecording gage at Second Avenue Bridge, 1 mi downstream at different datum. Aug. 17, 1904 to June 30, 1921, nonrecording gage at Freemans Ferry, 5 mi upstream at different datum. Since May 15, 1939, auxiliary water-stage recorder at Second Avenue Bridge, 1 mi downstream.

REMARKS.–Estimated daily discharges: Sept. 8-11. Records fair. Flow regulated by Allatoona Reservoir since 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.–67 years (water years 1905-20, 1939-89), 2,912 ft^3/s, 21.73 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 55,000 ft^3/s, Dec. 11, 1919, gage height, over 28 ft, at former site at Freemans Ferry, computed from data at upstream stations; minimum daily discharge, 360 ft^3/s, Oct. 10, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.–Maximum stage known, Dec. 11, 1919. Flood of Apr. 9, 1938, reached a stage of 37.5 ft, discharge, 46,500 ft^3/s, from gage readings and discharge measurements by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, 14,900 ft^3/s, Mar. 6, gage height, 25.96 ft, Mar. 6; minimum daily discharge, 481 ft^3/s, Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	1040	1230	615	1150	5250	2380	950	2580	5090	2480	1840
2	567	1040	1220	841	1140	4480	966	2490	3010	3810	3860	2430
3	616	1070	1200	1280	1100	4720	1100	2390	1450	3890	3660	863
4	1370	1060	578	1450	1110	3850	2570	2160	1130	4110	3530	829
5	1300	1170	776	2960	594	9760	4610	2100	1150	4380	3360	1760
6	1170	661	1790	2380	819	12300	5700	2450	1730	7230	1110	2340
7	1140	603	1820	1860	1270	5480	5460	1180	1660	7530	1070	1460
8	1140	1120	1830	690	1470	5420	4580	1250	1660	6890	2620	2350
9	529	1100	1830	878	1360	5670	2750	2040	1650	6200	1980	2310
10	498	1080	1600	2500	1900	6800	3800	2380	1590	5930	1000	980
11	1090	1090	577	2730	1460	5210	5640	2640	690	5810	2540	843
12	1090	1090	679	3110	741	1340	5510	2580	700	5860	2510	2020
13	491	579	1480	3360	939	2110	5040	2610	1670	5980	951	1970
14	481	551	1480	3300	982	5190	3660	1070	1670	5660	973	1990
15	1720	1170	1480	1550	1080	5140	2900	926	1960	4600	3520	1680
16	521	1210	1500	1470	1150	5110	1420	2750	2650	1330	2070	1940
17	504	1200	1380	1790	602	5060	1860	2730	2860	5490	3500	1070
18	1140	1180	543	3340	631	4230	2690	2090	1960	5490	2820	882
19	1110	1170	592	3160	645	982	2660	2630	3180	4820	2760	1440
20	1100	582	1090	3110	1060	1040	2610	2640	5720	5460	921	1390
21	1140	562	1100	2410	2530	2010	2580	1010	10400	5220	930	1370
22	1130	1230	1120	1480	3790	2290	1950	954	8390	5780	2720	1420
23	537	1210	1130	1310	2130	3110	934	1640	6980	7340	2690	1410
24	515	1190	1110	2360	1640	3730	893	1050	5590	5480	2650	748
25	1040	586	601	2380	1230	2610	2120	1490	4270	4840	2680	845
26	1010	1160	569	2390	886	1530	2100	1480	8200	4470	2790	3500
27	1010	608	1120	2400	1660	1580	2090	1490	6660	4240	1290	2230
28	1010	542	1130	1710	6450	2730	2380	993	6500	4120	968	3020
29	1010	1160	1110	629	—	2700	2650	1010	6620	3970	1870	4430
30	509	1230	1130	863	—	2670	862	1390	6570	1360	1870	5720
31	505	—	1140	918	—	2660	—	1400	—	1370	2300	—
TOTAL	28203	29244	35935	61224	41519	126762	86465	55963	110850	153750	69993	57080
MEAN	910	975	1159	1975	1483	4089	2882	1805	3695	4960	2258	1903
MAX	1720	1230	1830	3360	6450	12300	5700	2750	10400	7530	3860	5720
MIN	481	542	543	615	594	982	862	926	690	1330	921	748

CAL YR 1988	TOTAL	435448	MEAN	1190	MAX	5980	MIN	448	MEAN†	1218	CFSM†	.67	IN†	9.10
WTR YR 1989	TOTAL	856988	MEAN	2348	MAX	12300	MIN	481	MEAN†	2558	CFSM†	1.41	IN†	19.15

†ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

02396000 ETOWAH RIVER AT ROME, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.

REMARKS.--Laboratory analyses are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperatuare, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 24...	1020	513	159	159	7.70	7.70	15.0	19.0	9.1	92
NOV 30...	1030	2460	111	112	7.40	7.70	11.0	9.0	10.4	96
DEC 28...	1300	1460	100	97	7.50	7.70	10.5	10.0	11.0	100
JAN 26...	0945	2630	85	87	7.10	7.50	8.0	6.5	10.7	92
FEB 28...	1120	7150	84	79	--	7.30	8.0	14.0	11.3	97
MAR 30...	1015	3650	106	107	7.20	7.60	13.5	22.0	9.2	90
APR 26...	0930	3100	141	144	7.70	7.60	18.0	25.5	8.7	94
MAY 24...	1050	1110	120	119	7.80	7.70	21.0	24.5	8.2	94
JUN 27...	0950	6890	71	69	6.90	7.20	20.0	28.5	7.2	81
JUL 26...	1020	5060	74	73	7.10	7.00	23.0	27.0	6.7	79
AUG 30...	1110	1780	140	142	7.50	7.40	25.0	29.0	6.2	76
SEP 27...	1240	1360	100	99	7.30	7.20	19.0	25.0	7.6	83

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS TOTAL (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 24...	10	1.6	--	66	49	12	0.340	0.110	0.070	2.3
NOV 30...	15	1.3	490	--	37	14	0.460	<0.030	0.150	2.5
DEC 28...	8.0	2.0	50	33	34	7	0.280	0.040	0.040	2.1
JAN 26...	9.0	2.4	50	24	27	7	0.380	<0.030	0.130	3.5
FEB 28...	70	1.8	1700	33	25	82	0.580	<0.030	0.240	6.4
MAR 30...	20	1.0	110	39	37	26	0.430	<0.030	0.110	3.7
APR 26...	15	1.2	330	60	47	26	0.470	<0.030	0.100	3.1
MAY 24...	5.0	1.0	110	54	45	4	0.360	<0.030	--	1.5
JUN 27...	20	0.9	110	27	23	37	0.330	<0.030	0.040	2.3
JUL 26...	21	1.2	--	36	24	35	0.260	0.070	0.080	3.9
AUG 30...	12	1.4	1700	60	47	20	0.420	0.040	0.070	3.5
SEP 27...	94	2.1	4500	40	35	71	0.240	<0.030	0.150	--

02397000 COOSA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°12'01", long 85°15'24", Floyd County, Hydrologic Unit 03150105, on left bank attached to left lock wall of Mayos Bar lock near upstream end, 1.5 mi upstream from Webb Creek, 6 mi southwest of Rome, 7.5 mi downstream from confluence of Oostanaula and Etowah Rivers, and at mile 278.6.

DRAINAGE AREA.--4,040 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1896 to December 1903 (published as "at Rome"), June 1928 to December 1931, March 1937 to December 1958, October 1962 to current year. Water years 1959-62 (annual maximum only). Gage-height records collected at same site for period 1922-49, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1906: 1959(M).

GAGE.--Water-stage recorder. Datum of gage is 553.05 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Jan. 1, 1897, to Dec. 31, 1903, nonrecording gage at site 7.5 mi upstream at datum 8.65 ft higher. June 21, 1928, to Dec. 31, 1931, and Mar. 10, 1937, to Dec. 31, 1958, water-stage recorder at site 200 ft downstream at same datum. Water-stage recorder at Fifth Avenue in Rome used as auxiliary gage since 1963.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Allatoona Reservoir since December 1949 and by Carters Lake and Carters re-regulation Reservoir since November 1974. (See "Lakes and Reservoirs in Mobile River Basin, stations 02381400, 02382400 and 02393500.)

AVERAGE DISCHARGE.--58 years (water years 1897-1903, 1929-31, 1938-58, 1963-89), 6,602 ft^3/s, 22.19 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 65,000 ft^3/s, Jan. 22, 1947, gage height, 37.0 ft; minimum daily, 870 ft^3/s, Oct. 18-22, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 40.3 ft at site and datum at Rome, equivalent to about 43 ft at present site, from gage-height relation, Apr. 1, 1886, discharge, 100,000 ft^3/s, from rating curve extended above 63,000 ft^3/s on basis of peak flow at Gadsden, Ala.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,900 ft^3/s, Mar. 6, gage height, 27.46 ft; minimum daily discharge, 907 ft^3/s, Oct. 14.

02397000 COOSA RIVER NEAR ROME, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1720	1500	3790	7440	3670	26400	7470	4170	4550	12100	5180	4170
2	1270	1570	3180	8360	3520	25400	5320	6090	4940	8870	6230	4570
3	1440	1590	2840	8410	3340	23800	4530	6250	3410	8930	6030	2970
4	2460	1580	2100	7620	3190	22600	6750	5240	2800	13500	5510	2800
5	2210	2090	1990	7640	2730	27800	16800	6150	2720	16800	5210	3420
6	1930	2900	2930	6540	5500	32900	20000	14400	3970	19000	3240	3880
7	1780	3810	2940	6220	9080	30700	19400	12900	5210	19600	3050	2980
8	1720	3380	2860	5110	10500	28800	19600	10200	5580	17600	4210	3440
9	1130	2540	2830	5530	10500	27500	18200	8880	4940	14500	3610	3320
10	1030	2240	2730	8990	8830	25300	17300	8410	4980	11800	2750	2050
11	1600	2090	1640	12500	6800	17500	17700	8480	4520	10700	3770	2020
12	1620	2000	1580	19400	5150	9570	15100	8640	4130	10300	3730	2990
13	1060	1580	2390	22100	4680	9070	13500	7840	5020	10800	2410	2920
14	907	1520	2400	22100	4720	11400	10700	5480	4860	11200	2360	2880
15	2010	2140	2360	18100	4780	10400	9320	4890	6820	8920	4620	2610
16	1120	2310	2330	15100	4640	10000	6610	6040	14200	4680	3340	3170
17	987	2600	2290	11400	3920	9610	6020	5890	18500	7210	4450	3650
18	1450	3270	1400	9070	3900	8800	6330	5230	16500	8230	3980	2960
19	1570	3330	1340	7990	4270	4920	6050	5270	16600	7130	3890	2900
20	1580	4300	1900	7380	5780	4240	5860	5180	20000	9260	2360	2490
21	1700	5910	1870	6500	9930	6110	5700	3270	26400	7960	2270	2310
22	1680	5830	1870	4940	15800	7130	5350	3420	27800	8640	3710	2310
23	1160	4720	1910	3960	14700	8980	4230	4140	26100	16000	3670	2470
24	1020	3470	2040	5070	12200	13400	4090	3140	23100	13000	3620	2760
25	1470	2420	1770	4970	8110	12200	5090	4830	19600	10600	3770	3520
26	1530	2630	1720	4900	6130	8980	5050	4540	17500	8240	4070	6270
27	1490	2550	2370	4870	6900	7240	5030	4290	14600	7340	3540	7110
28	1470	3260	2270	4490	21800	7600	5230	3260	13800	6790	3290	7060
29	1490	5170	2170	2910	—	7630	5460	3200	14200	6400	3550	10900
30	1040	4850	2280	2810	—	7760	3640	3650	13600	4040	3320	19100
31	985	—	4030	3440	—	7750	—	3450	—	3820	4350	—
TOTAL	45629	89150	72120	265860	205070	461490	281430	186820	350950	323960	119090	126000
MEAN	1472	2972	2326	8576	7324	14890	9381	6026	11700	10450	3842	4200
MAX	2460	5910	4030	22100	21800	32900	20000	14400	27800	19600	6230	19100
MIN	907	1500	1340	2810	2730	4240	3640	3140	2720	3820	2270	2020

CAL YR 1988	TOTAL	964180	MEAN	2634	MAX	24600	MIN	907	MEAN†	2718	CFSM†	.67	IN†	9.10
WTR YR 1989	TOTAL	2527569	MEAN	6925	MAX	32900	MIN	907	MEAN†	7200	CFSM†	1.78	IN†	24.17

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE, CARTERS RE-REGULATION DAM, AND ALLATOONA RESERVOIR.

02397000 COOSA RIVER NEAR ROME, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.48	11.34	12.68	14.14	12.53	22.83	14.15	12.72	12.90	16.72	13.43	12.95
2	11.14	11.41	12.40	14.53	12.47	22.43	13.21	13.55	13.06	15.19	13.96	13.14
3	11.28	11.43	12.23	14.55	12.39	21.66	12.86	13.62	12.42	15.24	13.86	12.39
4	11.95	11.42	11.81	14.22	12.32	21.12	13.83	13.18	12.16	17.35	13.60	12.29
5	11.82	11.78	11.73	14.22	12.11	23.83	18.02	13.57	12.12	19.11	13.46	12.59
6	11.64	12.27	12.29	13.75	13.30	27.00	19.78	16.93	12.65	20.34	12.53	12.81
7	11.53	12.69	12.29	13.61	14.80	26.05	19.51	16.19	13.17	20.65	12.43	12.37
8	11.48	12.50	12.25	13.12	15.34	24.58	19.60	15.22	13.32	19.68	12.97	12.58
9	11.01	12.07	12.23	13.30	15.31	23.69	18.93	14.72	13.05	18.05	12.69	12.52
10	10.91	11.89	12.18	14.76	14.70	22.59	18.43	14.54	13.06	16.56	12.26	11.83
11	11.38	11.79	11.49	16.11	13.86	18.74	18.68	14.57	12.85	15.98	12.75	11.81
12	11.41	11.73	11.44	19.21	13.14	14.99	17.37	14.63	12.71	15.83	12.74	12.35
13	10.93	11.44	11.98	20.61	12.93	14.80	16.49	14.31	13.09	16.02	12.05	12.32
14	10.78	11.40	11.98	20.70	12.94	15.62	15.40	13.28	13.01	16.28	12.02	12.29
15	11.61	11.81	11.96	18.77	12.97	15.29	14.89	13.02	13.87	15.20	13.17	12.17
16	11.04	11.92	11.94	17.15	12.91	15.15	13.78	13.53	16.92	13.18	12.55	12.48
17	10.91	12.10	11.91	15.64	12.63	14.99	13.52	13.46	19.42	14.44	13.09	12.72
18	11.30	12.43	11.30	14.80	12.62	14.66	13.66	13.17	18.97	14.89	12.85	12.38
19	11.41	12.47	11.25	14.37	12.76	13.03	13.53	13.20	19.06	14.40	12.81	12.33
20	11.41	12.89	11.67	14.12	13.41	12.75	13.45	13.16	20.68	15.35	12.02	12.10
21	11.50	13.65	11.65	13.73	15.09	13.56	13.38	12.38	23.86	14.79	11.97	11.99
22	11.50	13.60	11.65	13.04	17.48	14.01	13.22	12.44	24.88	15.10	12.72	11.99
23	11.08	13.08	11.68	12.66	16.93	14.75	12.74	12.72	24.00	18.87	12.69	12.09
24	10.94	12.54	11.76	13.10	15.92	16.38	12.69	12.32	22.38	17.29	12.67	12.26
25	11.32	12.00	11.58	13.06	14.41	15.92	13.11	13.00	20.65	15.97	12.75	12.66
26	11.39	12.11	11.55	13.03	13.57	14.76	13.10	12.88	19.57	14.91	12.90	13.98
27	11.35	12.08	11.97	13.01	13.87	14.06	13.09	12.78	18.02	14.50	12.67	14.40
28	11.33	12.44	11.91	12.86	20.54	14.21	13.18	12.37	17.53	14.23	12.56	14.38
29	11.35	13.29	11.84	12.21	—	14.22	13.28	12.35	17.75	14.04	12.65	16.07
30	10.96	13.14	11.91	12.16	—	14.28	12.52	12.52	17.41	12.88	12.55	20.19
31	10.91	—	12.67	12.43	—	14.28	—	12.44	—	12.79	13.04	—
MEAN	11.29	12.22	11.91	14.61	14.04	17.62	14.98	13.51	16.48	15.99	12.79	12.95
MAX	11.95	13.65	12.68	20.70	20.54	27.00	19.78	16.93	24.88	20.65	13.96	20.19
MIN	10.78	11.34	11.25	12.16	12.11	12.75	12.52	12.32	12.12	12.79	11.97	11.81

CAL YR 1988	MEAN	11.96	MAX	21.82	MIN	10.78
WTR YR 1989	MEAN	14.03	MAX	27.00	MIN	10.78

02397000 COOSA RIVER NEAR ROME, GA.–Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.–March 1968 to current year.
PERIOD OF DAILY RECORD.–February 1986 to September 1987. April 1988 to current year.
INSTRUMENTATION.–Water-temperature recorder. Water temperature recorded hourly.
REMARKS.–Laboratory analyses are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen, are by the U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.–
WATER TEMPERATURE: Maximum recorded, 31.0°C, July 19, 21, 1986; minimum recorded, 4.5°C, Feb. 13, 1986, Jan. 28, 1987.
EXTREMES FOR CURRENT YEAR.–
WATER TEMPERATURE: Maximum recorded, 26.5°C, Aug. 25; minimum recorded, 5.5°C, Feb. 11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
24...	1240	1010	150	151	7.50	7.50	15.0	23.0	9.5	97
NOV										
30...	1240	5500	141	140	7.50	7.50	11.0	9.5	9.6	89
DEC										
28...	1140	2550	161	163	7.60	7.70	10.0	13.0	11.8	106
JAN										
26...	1200	4920	125	126	7.40	7.60	8.5	15.0	10.8	94
FEB										
28...	1350	23700	79	77	7.10	7.30	7.5	14.0	10.6	91
MAR										
30...	1230	8360	112	112	7.60	7.60	16.0	23.0	8.2	85
APR										
26...	1150	5810	110	113	–	7.50	19.0	31.0	8.5	93
MAY										
24...	0920	3060	149	149	7.60	7.60	22.0	20.5	7.4	86
JUN										
27...	1200	14800	90	84	7.00	7.00	21.5	31.0	6.0	69
JUL										
26...	0755	10400	118	118	7.40	7.30	24.0	23.0	6.5	78
AUG										
30...	0930	4140	132	134	7.40	7.40	25.5	25.0	5.5	68
SEP										
27...	1110	6910	119	117	7.40	7.20	18.0	20.0	7.2	77

02397000 COOSA RIVER NEAR ROME, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CACO3)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
24...	8.0	1.6	--	54	47	0.370	0.070	0.230	3.6
NOV									
30...	70	1.2	4600	52	48	0.410	0.030	0.240	7.1
DEC									
28...	13	2.1	460	69	57	0.470	0.040	0.130	3.0
JAN									
26...	13	2.3	790	45	43	0.550	0.040	0.180	4.5
FEB									
28...	88	0.4	5100	30	26	0.520	<0.030	0.180	7.1
MAR									
30...	18	1.5	790	45	40	0.400	<0.030	0.100	3.6
APR									
26...	14	1.0	50	39	40	0.470	<0.030	0.130	3.7
MAY									
24...	11	1.1	80	60	55	0.570	<0.030	0.510	3.0
JUN									
27...	81	1.3	7900	30	29	0.350	<0.030	0.180	3.8
JUL									
26...	41	1.4	--	48	43	0.360	0.030	0.100	5.0
AUG									
30...	28	1.8	790	54	45	0.500	0.050	0.120	7.0
SEP									
27...	100	2.7	13000	44	42	0.420	0.050	0.270	--

02397000 COOSA RIVER NEAR ROME, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.5	23.0	15.0	14.0	10.5	9.0	8.5	8.0	—	—	8.5	8.0
2	23.0	23.0	15.0	14.0	9.5	8.0	9.0	8.5	12.0	11.0	8.5	8.5
3	23.0	22.5	15.0	14.0	9.0	7.5	9.5	9.0	12.5	11.5	9.0	8.5
4	22.5	21.5	15.5	14.5	8.5	7.5	9.5	8.5	12.5	11.5	10.0	9.0
5	21.5	19.5	16.0	15.0	8.0	7.5	9.0	7.5	11.5	10.5	11.5	10.0
6	20.0	18.5	15.5	14.0	8.5	7.5	9.0	7.5	10.5	9.5	12.5	11.5
7	18.5	18.0	14.0	12.5	10.0	7.5	10.0	9.0	9.5	8.5	12.0	11.0
8	18.0	17.0	13.5	12.5	10.5	8.5	11.0	9.5	8.5	7.5	11.0	10.0
9	17.5	17.0	14.0	12.5	11.0	9.5	10.5	10.0	8.0	6.5	9.5	9.5
10	17.0	16.5	15.0	13.5	10.5	9.5	10.0	9.5	6.5	5.5	10.0	9.0
11	17.5	16.5	15.0	13.5	9.5	8.5	9.5	8.5	6.5	5.5	11.0	10.0
12	17.5	16.0	14.5	13.0	8.0	7.0	9.5	8.5	7.0	6.0	12.0	11.0
13	17.0	16.0	13.5	13.0	7.0	7.0	10.0	9.5	8.5	7.0	13.0	11.5
14	16.0	15.0	13.5	12.5	7.5	6.5	10.0	9.5	10.5	8.5	13.0	11.0
15	16.0	14.0	14.5	12.5	9.0	7.5	9.5	9.0	12.0	10.5	13.0	12.0
16	16.0	15.0	15.5	14.0	9.0	8.5	9.0	8.5	13.0	12.0	13.0	11.5
17	16.5	15.0	15.5	14.5	8.5	7.5	8.5	8.5	12.5	11.5	13.0	11.5
18	18.0	16.0	15.0	13.0	7.5	6.0	8.5	8.0	11.5	10.0	13.5	11.5
19	18.5	17.5	13.5	13.0	6.0	5.5	8.5	8.0	10.0	9.5	14.5	13.5
20	18.5	16.5	15.0	13.0	6.5	5.5	9.0	8.5	9.5	8.5	14.5	14.5
21	17.0	15.5	14.0	13.0	8.0	6.0	9.0	8.0	10.0	8.5	14.5	13.0
22	16.5	15.0	13.5	12.5	10.0	8.0	8.5	8.0	10.0	9.5	13.0	12.0
23	15.5	15.0	13.0	12.5	11.0	9.5	8.0	7.5	10.0	8.5	12.0	10.5
24	15.5	14.5	13.0	11.5	12.0	11.0	8.5	7.5	8.5	6.5	10.5	10.0
25	15.5	14.5	12.5	11.5	12.0	11.0	9.0	8.0	6.5	6.0	11.5	10.5
26	15.0	14.5	13.0	11.5	11.5	10.0	9.0	8.5	7.0	6.0	13.0	11.5
27	15.0	14.0	13.5	12.5	10.5	9.5	9.5	9.0	8.0	7.0	14.5	13.0
28	15.5	14.5	13.5	12.0	10.0	10.0	10.0	9.0	8.0	7.0	15.5	14.5
29	16.0	15.0	12.5	11.5	10.0	9.0	10.0	9.0	—	—	15.5	15.0
30	16.0	15.0	11.5	10.0	9.0	8.5	—	—	—	—	16.0	15.5
31	15.5	14.5	—	—	8.5	8.0	—	—	—	—	16.0	14.5
MONTH	23.5	14.0	16.0	10.0	12.0	5.5	11.0	7.5	13.0	5.5	16.0	8.0

02397000 COOSA RIVER NEAR ROME, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.5	13.5	19.0	19.0	23.5	22.0	21.0	20.5	25.0	25.0	25.0	25.0
2	14.5	13.5	19.0	18.0	23.0	20.5	21.5	20.5	25.0	24.0	25.5	24.5
3	14.5	14.0	19.0	17.0	22.5	21.0	22.0	20.5	24.5	24.0	25.0	24.5
4	15.0	13.5	18.5	17.0	22.5	22.0	22.0	21.5	25.0	24.5	25.0	25.0
5	14.0	13.0	17.0	15.5	22.5	22.5	22.0	21.5	25.5	24.5	25.0	24.5
6	14.5	13.5	17.0	16.0	23.0	22.0	22.0	21.5	26.0	25.0	24.5	23.5
7	14.0	13.0	16.5	16.0	23.0	21.5	22.5	22.0	26.0	25.5	24.0	23.0
8	13.0	12.0	16.5	16.0	22.5	21.5	23.0	22.0	25.5	24.5	25.0	23.5
9	12.0	11.5	16.5	16.5	21.5	21.0	23.5	22.5	24.0	22.5	25.5	24.5
10	11.5	11.0	16.5	16.0	22.0	21.0	23.5	22.5	23.5	23.0	25.5	25.0
11	11.5	10.5	16.0	15.5	22.5	22.0	23.5	22.5	24.0	23.0	25.0	24.5
12	12.0	11.0	16.0	15.5	22.5	22.0	23.5	23.0	24.0	23.0	25.0	24.0
13	12.5	11.5	16.0	15.0	23.0	22.5	23.0	22.5	24.0	23.5	25.0	24.5
14	13.5	12.0	16.0	15.5	23.0	22.5	23.5	22.5	24.0	23.5	25.5	24.5
15	14.0	13.0	17.0	16.0	23.0	22.0	23.5	22.5	24.0	23.0	25.5	24.5
16	14.5	13.5	18.0	17.0	22.0	20.5	23.0	23.0	24.5	23.5	25.0	23.5
17	16.5	14.5	18.5	17.0	20.5	20.5	23.0	22.0	24.5	24.0	24.0	23.5
18	16.5	16.0	19.0	17.5	21.0	20.5	23.5	22.5	24.5	23.5	23.5	22.5
19	17.0	16.5	19.0	18.5	21.5	21.0	23.5	22.5	25.0	24.0	23.0	22.0
20	17.0	16.5	19.0	17.5	21.0	20.5	23.5	22.5	25.0	24.5	23.0	22.0
21	17.0	16.5	19.5	18.0	21.0	20.5	23.0	22.5	25.5	25.0	23.0	22.5
22	17.5	17.0	21.5	20.0	21.0	21.0	23.0	22.5	26.0	25.0	23.0	22.5
23	19.0	17.5	22.5	21.5	21.5	21.0	23.0	22.5	26.0	25.0	23.0	22.5
24	20.0	18.5	22.5	22.0	22.0	21.5	23.5	23.0	26.5	25.5	22.5	20.0
25	20.5	19.5	23.0	22.0	22.5	21.5	24.0	23.5	26.5	25.0	20.0	18.5
26	21.0	18.5	22.5	22.0	22.0	21.0	25.0	24.0	26.5	25.0	18.5	18.0
27	20.5	18.5	22.5	22.0	22.5	21.0	25.0	24.0	—	—	19.0	18.0
28	20.5	18.5	22.5	22.0	22.0	21.0	25.0	24.0	—	—	19.0	18.0
29	19.5	17.5	22.5	22.0	21.5	20.5	25.0	24.5	—	—	18.5	18.0
30	18.5	18.5	23.0	22.5	21.5	20.5	—	—	—	—	19.0	17.5
31	—	—	23.5	23.0	—	—	—	—	—	—	—	—
MONTH	21.0	10.5	23.5	15.0	23.5	20.5	25.0	20.5	26.5	22.5	25.5	17.5
YEAR	26.5	5.5										

02397410 CEDAR CREEK AT CEDARTOWN, GA.

LOCATION.--Lat 33°59'45", long 85°15'53", Polk County, Hydrologic Unit 03150105, at right downstream bridge pier on Georgia Avenue at Cedartown, 1.1 mi downstream from Pumpkin Pile Creek, and at mile 29.9.

DRAINAGE AREA.–66.9 mi².

PERIOD OF RECORD.–May 1981 to current year.

GAGE.–Water-stage recorder. Datum of gage is 758.88 ft above National Geodetic Vertical Datum of 1929 (datum published incorrectly in 1981 and 1982).

REMARKS.–No estimated daily discharges. Records fair to poor.

AVERAGE DISCHARGE.–8 years, 78.1 ft³/s, 15.85 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 5,080 ft³/s, Feb. 3, 1982, gage height, 16.43 ft; minimum daily discharge 10 ft³/s, Aug. 6, 1986, June 17, 18, 24, 1988, Aug. 19, 1988, and Oct. 7, 8, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.–Flood of March 4, 1979, reached a stage of 21.1 ft from floodmarks, discharge, 16,500 ft³/s from rating curve extended above 4,500 ft³/s on basis of contracted-opening and flow-over-road computation of peak flow.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 5	0230	2,390	12.52	Apr. 5	0730	1,630	10.09
Mar. 6	0715	*4,280	*15.94	July 23	0115	2,240	11.82

Minimum daily discharge, 10 ft³/s, Oct. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	13	41	21	297	69	105	22	85	57	36
2	14	13	13	21	21	172	62	83	21	71	53	37
3	12	13	14	64	20	128	67	53	21	127	48	35
4	12	15	13	63	19	353	242	42	22	150	45	33
5	11	19	13	39	24	1370	1100	92	27	195	43	32
6	11	16	13	31	31	2460	412	109	30	361	42	32
7	10	19	14	27	60	491	278	66	25	651	42	32
8	10	23	15	25	54	323	255	51	23	207	41	31
9	11	23	14	25	42	223	255	57	27	135	40	30
10	11	23	14	46	37	172	175	166	24	99	40	32
11	11	23	14	65	34	143	139	89	20	76	39	35
12	11	25	14	73	31	119	117	65	19	63	38	34
13	11	26	14	292	29	103	104	51	26	59	38	32
14	12	21	14	122	27	92	94	45	27	51	38	31
15	12	13	11	87	25	82	106	48	60	45	41	36
16	12	13	11	66	23	74	91	36	122	307	39	40
17	11	15	11	53	23	69	76	28	77	305	146	35
18	11	12	11	47	30	64	69	24	44	125	51	34
19	11	12	11	42	37	59	64	24	103	105	42	34
20	12	20	11	39	52	57	58	27	78	107	40	33
21	13	14	12	35	304	136	56	26	549	113	39	34
22	12	13	12	32	151	116	51	25	797	360	38	35
23	13	13	13	30	94	361	47	25	426	1030	37	34
24	13	12	13	29	70	287	43	23	193	311	34	33
25	13	12	12	28	59	172	40	23	120	185	33	42
26	15	12	12	27	53	132	37	23	88	129	25	44
27	15	16	12	28	103	108	34	25	68	107	28	39
28	15	13	12	21	711	93	32	26	171	87	31	73
29	17	13	12	20	—	81	29	25	253	74	31	71
30	16	12	13	22	—	96	29	26	112	66	34	145
31	13	—	20	22	—	82	—	24	—	59	38	—
TOTAL	382	487	401	1562	2185	8515	4231	1532	3595	5845	1331	1224
MEAN	12.3	16.2	12.9	50.4	78.0	275	141	49.4	120	189	42.9	40.8
MAX	17	26	20	292	711	2460	1100	166	797	1030	146	145
MIN	10	12	11	20	19	57	29	23	19	45	25	30
CFSM	.18	.24	.19	.75	1.17	4.11	2.11	.74	1.79	2.83	.64	.61
IN.	.21	.27	.22	.87	1.21	4.73	2.35	.85	2.00	3.25	.74	.68

CAL YR 1988	TOTAL	11883	MEAN	32.5	MAX	1020	MIN	10	CFSM	.49	IN	6.61
WTR YR 1989	TOTAL	31290	MEAN	85.7	MAX	2460	MIN	10	CFSM	1.28	IN	17.40

02397500 CEDAR CREEK NEAR CEDARTOWN, GA.

LOCATION.--Lat 34°03'38", long 85°18'41", Polk County, Hydrologic Unit 03150105, at bridge on Cave Springs Road, 4.5 mi upstream from Lake Creek, and 4.5 mi northwest of Cedartown.

DRAINAGE AREA.--115 mi^2.

PERIOD OF RECORD.--February 1968 to current year.

REVISED RECORDS.--WDR GA-80-1: Drainage area.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductane, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Water-discharge records for the water years 1943-73 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT 24...	1200	31	340	348	7.60	7.70	12.5	22.5	6.8	65
NOV 30...	1200	--	309	317	--	8.10	10.0	8.5	6.7	61
DEC 28...	1220	26	298	297	7.60	7.80	12.0	9.0	8.4	79
JAN 26...	1120	47	300	305	7.30	7.70	11.0	8.5	8.8	81
FEB 28...	1310	1250	85	84	7.00	7.10	8.0	12.0	10.4	90
MAR 30...	1145	160	218	221	7.40	7.70	17.5	23.5	8.0	86
APR 26...	1110	86	265	271	8.10	7.90	19.5	28.0	9.4	105
MAY 24...	1010	67	268	273	7.70	7.80	19.0	22.5	7.0	77
JUN 27...	1110	170	215	--	7.60	7.80	21.5	30.0	7.6	88
JUL 26...	0845	320	171	176	7.50	7.40	21.5	25.0	7.0	80
AUG 30...	1020	64	280	286	7.80	7.80	22.0	27.0	6.1	71
SEP 27...	1200	72	250	256	7.90	7.80	17.5	23.0	8.3	88

02397500 CEDAR CREEK NEAR CEDARTOWN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CACO3)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, MONIA TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
24...	4.0	2.0	--	130	143	0.120	0.040	0.400	6.3
NOV									
30...	5.0	1.6	170	150	136	0.680	0.080	0.480	3.3
DEC									
28...	2.0	2.2	130	130	134	0.440	0.220	0.250	2.9
JAN									
26...	5.0	2.0	20	150	131	0.790	0.060	0.250	4.7
FEB									
28...	300	3.2	23000	36	27	0.400	0.060	0.310	19
MAR									
30...	7.0	0.9	33000	99	95	0.590	0.030	0.160	4.0
APR									
26...	3.0	0.8	4900	130	117	0.550	<0.030	0.250	2.6
MAY									
24...	4.0	1.1	14000	110	117	0.570	<0.030	0.090	2.2
JUN									
27...	8.0	1.0	7900	100	95	0.650	<0.030	0.130	2.0
JUL									
26...	9.0	1.8	--	69	75	0.500	0.060	0.080	3.4
AUG									
30...	3.0	1.1	700	150	124	1.07	0.100	0.200	3.5
SEP									
27...	5.0	1.7	160000	120	120	0.640	0.060	0.270	--

02397530 COOSA RIVER NEAR COOSA, GA.

LOCATION.--Lat 34°11'54", long 85°26'46", Floyd County, Ga.-Cherokee County, Ala., Hydrologic Unit 03150105, 6.5 mi southwest of Coosa, and at mile 254.8.

DRAINAGE AREA.--4,360 mi², approximately.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1976 to current year.

pH: August 1976 to current year.

WATER TEMPERATURE: August 1976 to current year.

DISSOLVED OXYGEN: August 1976 to current year.

PERIOD OF RECORD.--August 1974 to current year.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance, pH, Water Temperature, and Dissolved Oxygen recorded hourly.

REMARKS.--Flow regulated by Allatoona Reservoir and by Carters Lake and Carters Re-regulation Dam (see "Lakes and Reservoirs in Mobile River Basin", stations 02381400, 02382400, and 02393500). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 265 microsiemens Dec. 3, 1987; minimum recorded, 32 microsiemens Apr. 15, 1979.

pH: Maximum recorded, 9.70 units Dec. 5, 1977; minimum recorded, 6.30 units Nov. 6, 7, 8, 9, 10, 11, 12, 1977.

WATER TEMPERATURE: Maximum recorded, 36.5°C July 25, 1986; minimum recorded, 1.0°C Jan. 13, 1982.

DISSOLVED OXYGEN: Maximum recorded, 15.5 mg/L May 9, 1986; minimum recorded, 1.4 mg/L July 8, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 251 microsiemens Oct. 17; minimum recorded, 63 microsiemens Mar. 6.

pH: Maximum recorded, 8.60 units May 31; minimum recorded, 6.93 units Mar. 6.

WATER TEMPERATURE: Maximum recorded, 31.5°C Aug. 25, 26; minimum recorded, 6.5°C Feb. 11.

DISSOLVED OXYGEN: Maximum recorded, 11.5 mg/L Feb. 12, 27; minimum recorded, 4.5 mg/L Oct. 5, 13, 14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT									
25...	0930	189	186	7.50	7.40	20.0	12.5	6.9	77
NOV									
30...	0900	155	161	7.50	7.60	14.0	8.0	8.6	84
DEC									
27...	1100	215	206	7.30	7.30	12.0	11.0	6.1	57
JAN									
24...	1100	150	168	7.50	7.40	10.0	10.0	10.8	96
FEB									
23...	1145	103	101	7.40	7.20	9.5	-2.5	9.7	85
APR									
04...	1030	144	143	7.54	7.50	15.5	17.5	8.5	87
MAY									
01...	1000	141	141	7.38	7.70	21.0	19.5	7.3	83
24...	1020	164	161	7.50	7.40	24.0	21.5	7.0	84
JUN									
27...	1000	94	91	6.93	7.30	22.0	28.0	6.7	78
AUG									
01...	0930	148	150	7.42	7.00	27.5	25.0	6.0	77
22...	0940	162	159	7.48	7.40	28.5	27.5	6.4	83

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS TOTAL (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT							
25...	7.0	14	1.4	<20	48	51	4
NOV							
30...	32	17	1.5	--	54	56	45
DEC							
27...	16	29	3.1	130	66	63	12
JAN							
24...	15	14	2.0	230	63	45	21
FEB							
23...	100	26	--	--	39	32	110
APR							
04...	14	12	0.7	79000	51	51	11
MAY							
01...	15	21	1.2	<20	48	51	8
24...	8.0	21	1.8	50	57	58	16
JUN							
27...	22	15	1.0	1200	33	31	39
AUG							
01...	12	18	1.1	--	75	52	14
22...	11	19	1.5	--	--	54	7

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
25...	0.270	0.080	0.32	0.40	0.67	0.230	5.0
NOV							
30...	0.450	0.080	1.3	1.4	1.9	0.180	5.4
DEC							
27...	0.280	0.030	1.1	1.1	1.4	0.220	7.8
JAN							
24...	0.540	<0.030	--	0.80	1.3	0.160	3.9
FEB							
23...	0.310	0.050	0.85	0.90	1.2	0.300	6.8
APR							
04...	0.390	0.060	0.34	0.40	0.79	0.070	3.8
MAY							
01...	0.410	0.090	0.51	0.60	1.0	0.160	4.4
24...	0.450	0.060	0.34	0.40	0.85	0.170	3.7
JUN							
27...	0.320	<0.030	--	0.40	0.72	0.130	4.3
AUG							
01...	0.410	0.090	0.41	0.50	0.91	0.150	4.5
22...	0.410	0.100	0.30	0.40	0.81	0.150	5.0

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	220	200	230	208	174	159	194	151	190	171	86	76
2	220	212	225	202	165	151	152	132	200	180	84	73
3	215	202	240	223	162	151	138	126	186	169	81	72
4	220	204	242	230	165	145	138	128	192	168	79	72
5	229	210	—	—	169	151	137	128	187	166	89	74
6	212	190	—	—	186	164	143	130	185	167	78	63
7	200	183	—	—	189	163	141	129	167	134	71	64
8	209	189	—	—	176	162	145	132	136	111	77	68
9	210	199	208	192	167	143	153	137	111	94	80	72
10	209	187	208	182	152	142	155	147	100	92	84	73
11	209	202	198	172	155	147	150	108	108	92	94	77
12	225	204	195	170	153	144	109	89	111	103	104	84
13	240	222	181	157	172	153	98	88	115	100	105	95
14	239	228	196	168	200	170	97	90	129	110	128	100
15	231	213	209	183	186	173	98	93	156	123	110	90
16	238	211	222	207	192	170	98	93	152	139	109	94
17	251	232	225	193	201	165	109	96	147	137	116	94
18	247	228	226	199	192	171	133	108	152	140	116	97
19	239	225	210	178	196	166	128	110	160	149	119	104
20	246	238	203	173	216	170	122	111	166	153	136	112
21	241	206	195	151	240	217	127	113	173	160	159	134
22	228	205	151	136	238	207	128	118	155	108	171	146
23	232	219	164	135	225	210	140	128	108	101	147	131
24	220	195	170	156	229	197	162	135	102	95	138	100
25	203	192	170	155	215	200	165	142	109	98	108	97
26	215	201	171	147	216	203	154	132	125	109	112	103
27	239	214	179	166	222	205	156	136	129	121	119	107
28	238	218	182	166	237	214	155	138	135	82	125	116
29	230	219	180	149	224	204	150	137	—	—	134	118
30	237	224	168	150	225	213	163	144	—	—	127	112
31	232	225	—	—	210	184	189	160	—	—	127	117
MONTH	251	183	242	135	240	142	194	88	200	82	171	63

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	130	110	163	141	192	160	98	87	171	149	185	145
2	132	118	165	145	189	153	105	88	185	152	—	—
3	145	131	174	157	177	161	116	101	165	140	—	—
4	169	143	169	135	168	138	125	110	148	119	—	—
5	176	109	160	148	159	140	111	90	155	129	—	—
6	111	95	—	—	—	—	109	90	155	132	152	139
7	105	93	—	—	—	—	102	88	159	141	184	145
8	104	92	—	—	—	—	106	89	172	151	165	150
9	106	95	114	104	—	—	106	98	181	163	162	149
10	108	98	138	118	—	—	111	96	198	165	175	141
11	112	89	133	114	—	—	111	100	178	146	178	156
12	102	89	127	113	160	152	107	97	187	150	176	153
13	101	92	129	114	169	157	102	90	190	153	189	173
14	102	88	128	111	169	150	103	90	190	150	199	171
15	109	96	129	113	185	149	104	90	184	158	196	172
16	114	100	142	122	147	114	110	97	186	162	192	146
17	132	114	177	133	124	104	149	114	192	145	190	155
18	154	126	177	123	108	93	143	97	168	143	190	152
19	165	141	143	125	—	—	113	93	170	132	180	164
20	148	132	—	—	97	86	—	—	152	138	208	165
21	149	130	—	—	96	84	120	103	155	146	207	189
22	149	132	—	—	—	—	124	107	172	147	200	190
23	144	134	—	—	—	—	127	86	189	165	212	179
24	155	144	171	163	—	—	116	85	202	147	203	177
25	170	150	213	173	—	—	126	105	154	140	195	169
26	181	155	214	174	—	—	124	107	161	136	187	158
27	200	152	185	171	98	92	132	114	156	142	159	114
28	165	152	178	162	103	89	136	122	156	145	135	114
29	160	139	174	155	98	88	140	124	170	153	128	105
30	160	145	184	168	99	88	140	125	192	159	109	81
31	—	—	184	168	—	—	137	123	197	180	—	—
MONTH	200	88	214	104	192	84	149	85	202	119	212	81
YEAR	251	63										

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.54	7.42	7.47	7.39	7.54	7.43	7.54	7.36	7.58	7.52	7.27	7.12
2	7.57	7.47	7.47	7.36	7.48	7.43	7.38	7.25	7.62	7.51	7.17	7.11
3	7.50	7.36	7.44	7.33	7.49	7.43	7.29	7.21	7.55	7.49	7.16	7.10
4	7.46	7.34	7.38	7.33	7.52	7.44	7.31	7.25	7.56	7.46	7.19	7.10
5	7.41	7.34	—	—	7.55	7.48	7.36	7.26	7.51	7.45	7.20	7.08
6	7.54	7.37	—	—	7.58	7.48	7.43	7.36	7.50	7.44	7.10	6.93
7	7.52	7.40	—	—	7.62	7.49	7.43	7.36	7.51	7.43	7.11	6.94
8	7.73	7.52	—	—	7.68	7.59	7.42	7.34	7.45	7.36	7.15	7.06
9	7.59	7.52	7.34	7.26	7.63	7.54	7.46	7.37	7.41	7.33	7.18	7.12
10	7.62	7.49	7.35	7.28	7.59	7.51	7.49	7.43	7.42	7.33	7.23	7.11
11	7.60	7.48	7.39	7.30	7.58	7.47	7.44	7.24	7.44	7.34	7.21	7.08
12	7.56	7.46	7.36	7.28	7.58	7.51	7.20	7.13	7.47	7.34	7.25	7.12
13	7.54	7.42	7.36	7.27	7.59	7.48	7.21	7.11	7.49	7.35	7.36	7.25
14	7.49	7.40	7.34	7.28	7.58	7.50	7.22	7.16	7.55	7.42	7.55	7.36
15	7.58	7.41	7.41	7.29	7.74	7.59	7.22	7.16	7.66	7.49	7.49	7.37
16	7.67	7.48	7.43	7.36	7.74	7.65	7.20	7.16	7.63	7.55	7.48	7.37
17	7.90	7.48	7.47	7.36	7.73	7.59	7.24	7.17	7.59	7.52	7.56	7.38
18	7.59	7.48	7.54	7.43	7.66	7.51	7.36	7.19	7.57	7.50	7.54	7.39
19	7.63	7.53	7.46	7.34	7.54	7.41	7.36	7.30	7.58	7.49	7.50	7.36
20	7.60	7.43	7.51	7.36	7.43	7.25	7.41	7.34	7.66	7.54	7.41	7.33
21	7.48	7.40	7.47	7.30	7.29	7.22	7.48	7.37	7.72	7.64	7.44	7.34
22	7.64	7.48	7.28	7.21	7.43	7.26	7.47	7.41	7.64	7.41	7.47	7.39
23	7.64	7.53	7.39	7.21	7.45	7.34	7.49	7.41	7.46	7.39	7.47	7.38
24	7.56	7.43	7.43	7.35	7.45	7.28	7.58	7.43	7.44	7.38	7.46	7.31
25	7.57	7.44	7.46	7.36	7.39	7.28	7.64	7.55	7.48	7.39	7.37	7.31
26	7.54	7.44	7.43	7.34	7.34	7.29	7.60	7.52	7.48	7.39	7.40	7.33
27	7.54	7.41	7.48	7.40	7.36	7.27	7.57	7.51	7.57	7.44	7.43	7.34
28	7.47	7.40	7.52	7.43	7.44	7.32	7.56	7.48	7.59	7.24	7.48	7.37
29	7.51	7.42	7.51	7.42	7.57	7.44	7.55	7.48	—	—	7.57	7.45
30	7.53	7.45	7.50	7.43	7.58	7.50	7.54	7.47	—	—	7.64	7.47
31	7.51	7.45	—	—	7.59	7.51	7.57	7.49	—	—	7.67	7.59
MONTH	7.90	7.34	7.54	7.21	7.74	7.22	7.64	7.11	7.72	7.24	7.67	6.93

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.65	7.57	7.48	7.38	7.88	7.50	7.29	7.18	7.53	7.42	7.39	7.25
2	7.67	7.59	7.46	7.37	7.69	7.55	7.34	7.19	7.63	7.49	—	—
3	7.62	7.51	7.54	7.39	7.84	7.51	7.46	7.28	7.58	7.40	—	—
4	7.69	7.53	7.50	7.33	7.84	7.42	7.52	7.32	7.49	7.34	—	—
5	7.67	7.32	7.47	7.33	7.82	7.41	7.38	7.23	7.47	7.30	—	—
6	7.36	7.23	—	—	—	—	7.30	7.20	7.64	7.33	7.54	7.47
7	7.32	7.26	—	—	—	—	7.35	7.20	7.64	7.41	7.97	7.51
8	7.40	7.23	—	—	—	—	7.25	7.00	7.49	7.34	7.74	7.60
9	7.36	7.26	7.36	7.25	—	—	7.10	7.02	7.66	7.46	7.85	7.49
10	7.41	7.33	7.44	7.35	—	—	7.13	7.05	8.14	7.65	7.74	7.48
11	7.48	7.32	7.49	7.37	—	—	7.15	7.09	7.72	7.53	8.07	7.52
12	7.40	7.29	7.59	7.46	7.78	7.39	7.39	7.10	7.76	7.56	7.70	7.44
13	7.42	7.28	7.61	7.53	7.62	7.45	7.37	7.24	8.21	7.53	7.70	7.41
14	7.40	7.30	7.62	7.52	7.56	7.46	7.43	7.26	8.06	7.48	7.77	7.46
15	7.41	7.32	7.62	7.52	7.61	7.45	7.46	7.28	7.53	7.37	7.72	7.53
16	7.40	7.29	7.72	7.57	7.44	7.29	7.47	7.33	7.92	7.39	7.64	7.50
17	7.36	7.27	7.86	7.67	7.32	7.22	7.55	7.37	7.70	7.40	7.63	7.48
18	7.42	7.31	7.82	7.66	7.24	7.13	7.56	7.27	7.67	7.42	7.67	7.47
19	7.53	7.36	7.78	7.59	—	—	7.37	7.21	7.65	7.43	7.56	7.40
20	7.43	7.30	—	—	7.11	7.00	—	—	7.73	7.41	7.54	7.37
21	7.42	7.30	—	—	7.13	7.01	7.42	7.29	8.57	7.58	7.51	7.41
22	7.43	7.29	—	—	—	—	7.50	7.32	7.66	7.43	7.53	7.43
23	7.54	7.36	—	—	—	—	7.54	7.24	7.96	7.44	7.59	7.44
24	7.60	7.34	8.05	7.56	—	—	7.36	7.18	8.07	7.55	7.51	7.41
25	7.48	7.39	7.77	7.53	—	—	7.47	7.29	7.65	7.44	7.49	7.39
26	7.59	7.43	7.71	7.51	—	—	7.45	7.30	7.59	7.39	7.49	7.39
27	7.65	7.41	7.69	7.50	7.11	6.96	7.49	7.29	7.59	7.35	7.50	7.25
28	7.49	7.37	7.79	7.47	7.23	7.08	7.47	7.31	7.53	7.35	7.34	7.23
29	7.47	7.29	7.74	7.43	7.24	7.12	7.45	7.31	7.39	7.23	7.39	7.26
30	7.57	7.36	7.77	7.47	7.29	7.12	7.56	7.33	7.40	7.25	7.28	7.10
31	—	—	8.60	7.46	—	—	7.59	7.33	7.50	7.38	—	—
MONTH	7.69	7.23	8.60	7.25	7.88	6.96	7.59	7.00	8.57	7.23	8.07	7.10
YEAR	8.60	6.93										

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	M IN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	28.0	27.0	20.5	19.5	14.0	13.0	11.0	9.0	13.5	12.0	9.0	8.0
2	28.0	27.0	22.0	20.0	13.5	12.0	9.5	9.0	14.0	13.0	9.0	8.5
3	28.0	26.5	23.0	21.0	13.0	12.0	10.0	9.5	14.0	13.0	9.5	9.0
4	27.0	26.0	—	—	12.5	12.0	10.5	9.5	13.5	13.0	9.5	9.0
5	26.5	26.0	—	—	13.0	12.0	10.0	9.5	13.5	12.5	11.0	9.5
6	26.0	24.5	—	—	14.0	11.5	10.0	9.0	13.5	12.0	12.0	11.0
7	24.0	23.5	—	—	13.0	10.0	10.5	9.0	11.5	9.0	11.5	11.5
8	24.0	22.5	—	—	13.0	10.0	11.5	10.5	9.0	8.5	11.5	10.5
9	23.0	22.5	16.5	15.5	13.5	12.0	11.5	10.5	8.5	7.5	10.5	10.0
10	23.0	22.0	16.5	16.0	13.0	11.5	11.5	10.5	7.5	7.0	10.5	9.5
11	23.0	21.5	17.5	16.5	11.5	11.0	10.5	9.5	7.0	6.5	11.5	10.0
12	23.0	21.5	18.0	16.5	12.0	10.5	9.5	8.5	8.0	7.0	12.0	10.5
13	23.0	21.5	19.5	17.0	13.0	11.0	10.0	9.0	8.5	7.5	13.0	12.0
14	23.0	21.0	19.0	17.0	13.0	11.0	10.0	9.5	11.0	8.0	14.0	12.5
15	22.0	20.5	19.0	18.0	11.5	10.0	9.5	9.0	12.5	9.5	14.0	12.5
16	22.0	20.5	19.5	18.0	11.5	9.5	9.5	9.0	13.0	11.5	13.5	12.5
17	24.5	21.5	19.0	17.0	11.0	9.0	9.5	8.5	13.0	12.5	14.0	12.5
18	22.5	21.5	18.0	16.5	11.0	9.0	9.0	8.5	13.5	12.5	14.0	12.5
19	22.0	21.0	17.5	16.5	11.0	10.5	9.0	8.5	13.0	12.0	14.0	13.0
20	22.0	21.0	17.0	16.0	12.0	10.0	9.5	9.0	12.0	10.5	15.0	14.0
21	21.5	20.5	16.0	15.0	13.0	11.5	9.5	9.0	11.0	10.0	15.5	14.5
22	21.5	20.5	15.5	14.5	12.0	10.5	10.0	9.0	10.5	10.0	15.0	13.5
23	22.5	21.0	15.0	14.5	12.5	11.0	10.5	9.0	10.0	9.5	13.5	12.0
24	22.0	20.5	16.0	14.0	12.5	11.5	11.0	9.0	9.5	8.0	12.0	11.0
25	20.5	19.0	15.5	14.5	12.5	11.5	11.0	8.5	8.5	7.5	12.0	11.0
26	19.0	18.0	15.5	15.0	13.0	11.5	11.0	9.5	8.0	7.5	13.0	11.5
27	21.0	18.0	16.5	15.5	13.0	12.0	11.5	9.5	8.0	7.5	14.5	13.0
28	20.5	20.0	16.0	15.0	14.0	12.0	12.0	9.5	8.5	8.0	16.0	14.0
29	21.5	20.0	16.0	14.5	13.0	11.0	12.0	10.5	—	—	17.0	16.0
30	21.0	20.0	15.0	13.5	13.5	11.0	12.5	11.0	—	—	17.0	16.5
31	20.5	19.5	—	—	12.5	11.0	12.5	11.0	—	—	17.0	16.0
MONTH	28.0	18.0	23.0	13.5	14.0	9.0	12.5	8.5	14.0	6.5	17.0	8.0

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	15.5	21.5	20.5	28.0	25.5	22.5	21.5	—	—	29.0	27.5
2	16.0	15.0	20.5	20.0	27.0	25.5	22.0	22.0	28.5	27.0	—	—
3	15.5	15.0	21.0	19.5	27.5	26.5	23.0	22.0	27.0	26.5	—	—
4	16.5	15.5	20.5	19.5	26.5	25.0	23.0	22.5	27.5	26.0	—	—
5	16.0	14.5	—	—	26.0	25.0	24.0	22.5	28.0	26.5	—	—
6	14.5	14.0	—	—	—	—	26.0	22.5	30.5	27.5	—	—
7	15.0	14.0	—	—	—	—	25.5	22.5	29.0	27.5	29.5	27.0
8	14.5	13.0	—	—	—	—	26.0	24.5	28.5	27.5	28.0	26.5
9	13.0	12.0	—	—	—	—	26.0	24.0	27.5	26.0	30.0	27.0
10	12.0	12.0	18.0	17.5	—	—	26.0	24.0	29.0	26.0	29.0	27.0
11	12.5	11.5	18.0	17.5	—	—	25.0	24.0	27.0	25.5	28.0	27.0
12	12.5	11.5	17.5	17.0	28.0	24.5	25.5	23.5	27.0	25.0	29.5	26.5
13	13.5	12.0	17.5	17.0	25.5	24.5	25.0	24.5	29.0	26.0	30.5	28.0
14	14.0	12.5	17.5	17.0	26.0	25.0	24.5	24.0	28.0	26.0	29.5	27.5
15	15.0	13.5	19.0	17.0	25.5	24.0	25.0	24.0	28.5	26.5	28.5	27.5
16	15.5	14.5	19.5	18.0	24.0	22.0	25.0	24.5	29.0	27.0	29.0	27.0
17	16.5	15.0	20.5	19.0	22.0	21.5	25.5	24.0	27.0	26.5	28.5	27.0
18	18.0	16.0	20.5	19.5	22.0	21.5	25.0	24.0	27.5	26.0	28.0	26.0
19	18.5	17.0	21.0	20.0	—	—	25.0	24.5	28.0	27.0	27.0	25.5
20	19.5	17.5	—	—	—	—	—	—	30.0	27.0	27.0	25.5
21	20.0	18.0	—	—	22.5	21.0	24.5	24.0	31.0	28.0	26.0	25.5
22	20.0	18.5	—	—	—	—	25.0	24.0	31.0	28.0	26.0	25.5
23	21.0	18.5	—	—	—	—	24.5	24.0	31.0	29.0	26.5	24.5
24	22.0	20.0	—	—	—	—	24.5	23.5	30.5	28.5	25.0	24.0
25	22.5	21.0	26.5	24.5	—	—	25.5	24.5	31.5	28.5	24.5	23.5
26	23.0	21.5	26.5	25.0	—	—	26.0	25.0	31.5	28.5	23.5	20.5
27	23.5	22.5	26.0	25.5	23.0	22.0	26.5	26.0	30.5	28.5	20.5	20.0
28	23.5	22.5	28.5	25.0	23.5	23.0	27.0	26.0	30.5	28.5	20.5	19.0
29	23.0	22.0	28.0	25.0	22.5	22.0	27.0	26.0	30.5	28.5	20.0	19.0
30	23.0	22.0	28.5	26.0	22.5	21.5	28.0	26.5	30.5	28.0	19.5	18.0
31	—	—	31.5	26.0	—	—	30.0	27.0	30.0	28.5	—	—
MONTH	23.5	11.5	31.5	17.0	28.0	21.0	30.0	21.5	31.5	25.0	30.5	18.0
YEAR	31.5	6.5										

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.0	5.1	6.2	5.8	8.7	8.5	10.2	9.8	10.0	9.6	10.7	10.4
2	6.5	5.5	6.8	5.8	9.0	8.6	9.9	9.4	9.6	9.4	10.4	10.2
3	5.8	5.0	6.3	5.1	9.3	9.0	9.8	9.4	9.5	9.3	10.3	10.1
4	5.7	5.1	---	---	9.4	9.3	9.7	9.4	9.4	9.2	10.1	10.0
5	5.3	4.5	---	---	9.7	9.3	9.8	9.4	9.3	8.9	10.0	9.3
6	6.4	5.2	---	---	9.7	9.4	10.2	9.9	9.5	9.0	9.3	8.7
7	6.4	5.8	---	---	10.2	9.5	10.2	10.0	10.2	9.5	8.7	8.5
8	8.1	6.4	---	---	10.3	10.1	10.1	9.5	10.5	10.1	8.9	8.4
9	7.1	6.3	5.9	5.7	10.1	9.7	9.7	9.4	11.0	10.5	9.3	8.8
10	7.3	6.5	6.2	5.8	9.9	9.6	9.7	9.5	11.3	10.9	9.7	9.1
11	7.2	6.4	6.8	6.1	9.7	9.6	9.9	9.6	11.4	11.2	9.3	8.9
12	7.1	5.9	7.0	6.2	9.7	9.4	9.5	9.4	11.5	11.3	9.3	9.0
13	5.9	4.5	6.9	6.7	9.5	9.0	9.5	9.3	11.3	11.2	9.6	9.3
14	5.7	4.5	6.9	6.1	9.5	8.8	9.7	9.3	11.2	11.0	9.6	9.3
15	6.8	5.2	6.6	6.1	10.4	9.6	9.7	9.6	11.0	10.5	9.7	9.3
16	7.7	6.5	6.5	6.0	10.6	10.1	10.0	9.7	10.5	10.0	9.6	9.3
17	8.5	6.2	7.0	6.0	10.5	9.1	10.2	9.9	9.9	9.6	9.6	9.3
18	6.5	6.1	7.4	6.5	9.6	8.5	10.4	9.8	9.5	9.1	9.6	9.2
19	7.5	6.4	7.2	6.2	8.8	8.1	10.7	10.4	9.2	9.1	9.3	9.0
20	6.6	5.9	7.9	7.2	8.6	6.5	10.8	10.7	10.0	9.3	9.0	8.5
21	6.7	5.6	8.2	7.3	6.8	6.0	10.8	10.7	10.4	10.0	8.4	8.3
22	7.1	6.3	7.5	7.1	9.0	6.8	10.7	10.6	10.1	9.8	8.6	8.3
23	7.0	6.6	7.4	6.9	9.1	8.4	10.7	10.5	9.9	9.6	9.2	8.6
24	7.1	6.7	7.5	7.3	9.0	7.6	10.9	10.6	10.4	9.7	9.9	9.1
25	7.4	6.7	7.8	7.4	7.7	7.1	11.1	10.8	11.0	10.4	9.8	9.7
26	7.4	6.6	7.9	7.6	7.0	6.4	11.0	10.8	11.4	11.0	9.7	9.6
27	6.8	6.0	8.1	7.9	6.5	5.9	10.9	10.6	11.5	11.3	9.6	9.3
28	6.4	5.8	8.4	8.0	7.4	6.2	10.8	10.5	11.3	10.7	9.4	9.2
29	6.8	5.9	8.5	8.1	8.5	7.5	10.6	10.4	---	---	9.3	8.9
30	6.6	6.2	8.7	8.5	9.0	8.5	10.5	10.2	---	---	9.0	8.7
31	6.4	6.0	---	---	9.7	8.9	10.3	9.8	---	---	8.8	8.4
MONTH	8.5	4.5	8.7	5.1	10.6	5.9	11.1	9.3	11.5	8.9	10.7	8.3

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.6	8.5	7.5	7.2	8.1	6.3	7.6	7.2	6.5	6.0	5.5	5.3
2	9.0	8.5	7.2	6.9	7.2	6.3	7.5	7.1	6.9	6.3	—	—
3	8.8	8.5	7.4	6.6	8.5	6.4	7.5	6.8	6.9	6.2	—	—
4	8.7	8.4	7.4	6.8	8.9	6.9	7.4	6.4	7.1	6.4	—	—
5	8.6	7.9	—	—	9.2	6.5	—	—	7.1	6.4	—	—
6	8.4	8.0	—	—	—	—	—	—	7.9	6.4	6.1	5.8
7	8.6	8.0	—	—	—	—	—	—	7.6	6.4	7.8	6.1
8	9.0	8.4	—	—	—	—	—	—	6.5	6.1	7.4	6.5
9	9.4	8.7	8.4	8.0	—	—	—	—	7.5	6.4	7.8	6.2
10	9.6	9.4	8.4	7.8	—	—	—	—	8.9	7.2	7.5	6.0
11	9.9	9.6	8.5	7.9	—	—	—	—	8.2	7.1	9.3	6.2
12	10.1	9.7	8.5	8.4	8.6	6.2	—	—	8.9	7.4	7.3	5.9
13	10.2	9.9	8.6	8.3	7.1	6.2	—	—	10.0	7.7	7.1	5.4
14	10.1	9.9	8.5	8.0	7.0	6.3	6.8	6.6	10.2	7.9	7.2	5.9
15	9.9	9.6	8.2	7.8	6.7	6.2	7.0	6.6	7.8	7.0	6.8	6.1
16	9.8	9.2	8.0	7.6	6.7	6.2	7.0	6.4	9.5	6.9	6.5	5.8
17	9.2	8.9	8.1	7.6	6.6	6.0	6.4	6.1	8.2	7.1	6.3	5.7
18	8.9	8.7	8.1	7.4	6.8	6.4	6.6	5.9	8.1	7.1	6.5	5.5
19	8.9	8.5	8.2	7.1	—	—	6.3	5.8	8.2	6.7	6.0	5.3
20	8.8	8.3	—	—	6.9	6.5	—	—	8.5	6.8	6.0	5.1
21	8.6	8.3	—	—	6.8	5.6	6.3	5.9	10.4	7.6	5.8	5.0
22	8.6	8.2	—	—	—	—	6.7	6.1	7.7	6.1	6.2	5.4
23	9.2	8.3	—	—	—	—	6.9	6.4	8.6	5.9	6.3	5.7
24	9.2	7.9	9.6	7.1	—	—	6.5	6.3	8.5	6.8	6.2	5.8
25	8.4	7.7	8.0	6.0	—	—	6.5	6.2	7.2	6.4	6.3	5.8
26	8.2	7.7	7.6	5.7	—	—	6.5	5.9	7.5	6.0	7.0	6.0
27	8.0	7.5	7.2	6.0	7.0	6.7	6.7	5.9	7.3	6.0	7.7	6.9
28	7.7	7.4	8.2	5.9	7.3	6.5	6.6	6.0	7.4	6.0	7.3	6.8
29	7.7	7.3	8.1	6.2	7.3	6.9	6.7	6.1	6.3	4.7	7.5	7.3
30	8.5	7.5	8.5	6.1	7.6	7.0	7.4	6.1	6.2	5.0	7.5	6.9
31	—	—	9.7	5.9	—	—	7.7	5.9	6.1	5.4	—	—
MONTH	10.2	7.3	9.7	5.7	9.2	5.6	7.7	5.8	10.4	4.7	9.3	5.0
YEAR	11.5	4.5										

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.

LOCATION.--Lat 34°28'03", long 85°20'19", Chattooga County, Hydrologic Unit 03150105, on left bank 600 ft downstream from bridge on U.S. Highway 27, 1 mi southeast of Summerville, and 4 mi upstream from Raccoon Creek.

DRAINAGE AREA.--192 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1937 to current year.

REVISED RECORDS.--WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 613.47 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Nov. 12, 1937, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 25 to Nov. 5, Mar. 6-29, July 26-29, and Sept. 2-30. Records good, except those for periods of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--52 years, 354 ft^3/s, 25.04 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft^3/s, Mar. 29, 1951, gage height, 21.0 ft; minimum daily discharge, 38 ft^3/s, Oct. 17, 1937, Nov. 9, 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 28	2000	6,160	15.09	June 20	1200	3,520	12.71
Apr. 5	0600	3,190	12.16	July 4	1600	*6,730	*15.39
June 16	1900	3,620	12.87				

Minimum discharge, 72 ft^3/s, Oct. 15-16.

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	78	206	857	193	2670	381	194	124	395	556	168
2	133	77	184	516	184	1210	348	187	169	394	305	290
3	116	77	168	587	178	917	342	171	148	1280	271	180
4	97	90	159	564	169	826	1020	168	129	4820	233	170
5	89	109	148	430	270	2030	2370	274	163	2080	231	150
6	85	125	141	472	751	2400	1090	391	274	1650	222	150
7	84	110	135	435	1040	2000	1390	246	241	1300	205	150
8	81	100	130	481	752	1400	1370	218	191	885	194	140
9	81	96	127	561	574	1000	1390	205	353	663	182	140
10	78	99	123	932	479	700	970	217	301	547	174	140
11	77	96	120	1320	422	550	740	199	234	460	166	180
12	75	92	116	1980	372	430	593	184	203	400	157	150
13	73	104	114	2280	333	300	504	175	261	432	153	140
14	73	114	112	1600	309	270	433	171	299	365	152	140
15	72	109	109	1100	282	260	494	167	1480	323	164	140
16	72	110	105	811	264	240	436	164	3060	301	157	240
17	73	119	102	634	257	240	373	158	1930	290	157	170
18	74	123	101	537	282	230	344	151	956	255	149	150
19	96	114	100	452	383	250	327	148	1130	304	144	140
20	84	853	99	394	408	400	302	176	2530	311	139	130
21	81	601	98	342	1600	900	280	192	1860	416	135	130
22	81	348	98	310	1270	600	262	165	1470	338	134	140
23	77	271	104	285	815	700	246	160	951	773	161	200
24	76	224	111	260	611	820	232	156	701	660	151	180
25	76	195	106	240	513	630	221	148	668	490	146	190
26	76	179	101	225	454	520	208	142	505	400	243	450
27	76	247	99	221	640	430	202	151	441	330	344	300
28	78	299	101	209	4330	350	194	146	440	270	176	250
29	76	258	100	198	—	300	187	138	496	260	159	2300
30	78	229	109	209	—	479	181	132	419	233	159	3390
31	80	—	376	209	—	450	—	127	—	347	185	—
TOTAL	2559	5646	4002	19651	18135	24502	17430	5621	22127	21972	6104	10786
MEAN	82.5	188	129	634	648	790	581	181	738	709	197	360
MAX	133	853	376	2280	4330	2670	2370	391	3060	4820	556	3390
MIN	72	77	98	198	169	230	181	127	124	233	134	130
CFSM	.43	.97	.67	3.29	3.36	4.09	3.01	.94	3.82	3.67	1.02	1.87
IN.	.49	1.09	.77	3.79	3.50	4.72	3.36	1.08	4.26	4.23	1.18	2.08

CAL YR 1988	TOTAL	63644	MEAN	174	MAX	7110	MIN	51	CFSM	.90	IN	12.27
WTR YR 1989	TOTAL	158537	MEAN	434	MAX	4820	MIN	72	CFSM	2.25	IN	30.56

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.–Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.–March 1968 to current year.

REMARKS.–Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
24...	1410	73	620	629	7.90	8.00	14.0	24.5	9.6	95
NOV										
30...	1350	225	300	313	7.70	7.90	10.0	12.5	11.4	103
DEC										
28...	1020	101	400	418	–	8.00	11.5	15.0	10.4	97
JAN										
26...	1320	221	340	351	7.80	7.90	10.5	15.5	9.7	88
FEB										
28...	1510	5550	75	73	7.30	7.20	7.5	15.0	11.0	94
MAR										
30...	1350	510	248	253	7.90	7.90	18.0	20.0	7.8	85
APR										
26...	1310	206	330	337	7.90	7.80	19.5	33.0	7.6	84
MAY										
24...	0810	160	350	383	7.60	8.00	19.5	16.0	7.4	82
JUN										
27...	1320	421	260	–	7.80	7.60	22.5	32.0	7.0	83
JUL										
26...	0615	425	240	256	7.80	7.70	22.0	24.0	7.2	83
AUG										
30...	0750	155	360	378	7.70	7.80	23.5	24.0	6.4	77
SEP										
27...	0950	294	286	295	7.90	7.80	16.5	19.0	8.2	85

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS TOTAL (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
24...	3.0	2.3	–	110	174	0.370	<0.030	0.210	3.9
NOV									
30...	7.0	1.1	80	100	104	0.440	0.080	0.170	3.0
DEC									
28...	9.0	2.5	150	120	136	1.02	0.100	0.160	4.0
JAN									
26...	5.0	4.0	3300	93	121	0.660	0.090	0.190	5.5
FEB									
28...	160	2.0	7900	24	25	0.240	<0.030	0.260	7.9
MAR									
30...	10	1.2	490	84	97	0.380	<0.030	0.090	4.0
APR									
26...	4.0	1.1	–	99	125	0.420	<0.030	0.100	3.4
MAY									
24...	5.0	1.4	50	110	136	0.610	0.090	0.090	2.6
JUN									
27...	10	0.9	1100	90	94	0.520	<0.030	0.110	2.8
JUL									
26...	10	1.4	–	100	92	0.370	0.050	0.090	3.8
AUG									
30...	8.0	1.0	170	100	135	0.460	0.030	0.190	7.4
SEP									
27...	21	2.0	490	90	116	0.410	0.070	0.200	–

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.

LOCATION.--Lat 34°20'08", long 85°26'43", Chattooga County, Hydrologic Unit 03150105, at bridge on Holland-Chattoogaville Road, 0.4 mi downstream from Hinton Creek, and 0.7 mi south of Chattoogaville.

DRAINAGE AREA.--281 mi^2.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
24...	1330	94	480	495	7.90	7.90	13.0	24.0	9.8	95
NOV										
30...	1320	--	260	267	7.60	7.90	10.0	12.0	10.5	95
DEC										
28...	1050	160	346	360	7.50	8.00	10.5	14.0	10.0	91
JAN										
26...	1250	--	298	311	7.60	7.80	10.0	15.5	9.8	88
FEB										
28...	1440	4600	90	87	7.20	7.20	7.5	15.0	10.7	91
MAR										
30...	1315	660	202	238	7.50	7.80	18.0	20.0	7.6	82
APR										
26...	1240	--	328	335	8.00	7.80	20.0	32.0	8.6	96
MAY										
24...	0850	--	356	370	7.80	7.80	20.0	18.0	7.0	78
JUN										
27...	1250	--	230	--	7.60	7.70	22.5	31.0	7.0	82
JUL										
26...	0700	540	225	236	7.70	7.70	22.5	23.0	6.8	79
AUG										
30...	0850	--	339	352	7.70	7.80	24.0	25.0	6.2	75
SEP										
27...	1020	420	298	299	8.00	7.80	17.0	19.0	8.1	85

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS TOTAL (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
24...	3.0	2.3	--	110	168	5	0.470	0.040	0.250	3.4
NOV										
30...	9.0	1.3	330	100	101	7	0.510	0.090	0.230	2.7
DEC										
28...	5.0	2.2	170	120	137	1	0.470	0.150	0.120	3.1
JAN										
26...	7.0	3.1	790	100	113	6	0.680	0.040	0.260	3.2
FEB										
28...	92	1.6	17000	30	32	84	0.320	<0.030	0.250	7.0
MAR										
30...	13	1.5	560	80	93	23	0.430	0.050	0.200	4.3
APR										
26...	5.0	0.8	110	90	118	11	0.480	<0.030	0.160	2.0
MAY										
24...	7.0	1.1	100	110	124	9	0.700	0.030	0.090	2.6
JUN										
27...	13	0.9	4900	93	87	21	0.580	<0.030	0.210	2.7
JUL										
26...	13	1.2	--	110	88	28	0.370	0.030	0.220	2.8
AUG										
30...	11	1.0	340	100	113	21	0.860	0.030	0.400	4.4
SEP										
27...	8.0	1.9	1700	100	117	--	0.510	0.030	0.340	--

02411930 TALLAPOOSA RIVER BELOW TALLAPOOSA, GA.

LOCATION.--Lat 33°44'27", long 85°20'11", Haralson County, Hydrologic Unit 03150108, at bridge on U.S. Highway 78, 0.4 mi upstream from Walker Creek, and 2.7 mi west of Tallapoosa.

DRAINAGE AREA.--272 mi^2.

PERIOD OF RECORD.--July 1974 to current year.

REVISED RECORDS.--WDR GA-80-1: Drainage area.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
NOV 03...	0950	57	50	50	7.00	6.90	11.5	19.0	8.5	80
JAN 05...	1900	290	42	44	7.10	6.90	9.0	14.0	10.9	97
MAR 09...	1100	410	39	38	7.00	--	8.0	8.0	11.2	97
MAY 11...	0850	1000	35	34	6.60	6.90	15.0	15.5	9.0	92
JUL 11...	1400	248	43	--	7.10	6.90	23.5	28.0	6.9	83
SEP 14...	0920	238	43	43	6.85	6.90	23.0	27.0	6.9	83

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 03...	7.0	1.9	210	15	<0.020	<0.030	0.290	5.3
JAN 05...	32	2.0	2200	10	0.260	0.060	0.070	5.4
MAR 09...	22	2.1	140	10	0.210	<0.030	0.090	3.1
MAY 11...	89	2.4	7900	10	0.140	0.040	0.150	9.1
JUL 11...	15	1.0	130	14	0.190	<0.030	0.100	2.5
SEP 14...	27	1.0	330	13	0.160	<0.030	0.140	4.3

02413210 LITTLE TALLAPOOSA RIVER BELOW BOWDON, GA.

LOCATION.--Lat 33°29'34", long 85°16'45", Carroll County, Hydrologic Unit 03150108, at bridge on State Highway 100, 1.9 mi upstream from Indian Creek, and 3.8 mi southwest of Bowdon.

DRAINAGE AREA.--245 mi².

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT										
05...	0930	445	57	57	7.00	6.70	18.0	18.5	7.1	77
NOV										
03...	1050	97	134	134	7.00	6.90	12.5	19.5	8.3	80
DEC										
07...	1120	125	79	79	6.90	7.00	6.5	17.5	11.3	94
JAN										
05...	1800	295	51	58	7.10	6.90	9.0	14.0	10.5	93
FEB										
08...	1040	300	75	72	6.50	7.00	8.0	3.5	10.5	90
MAR										
09...	1150	330	59	57	7.00	6.60	8.0	10.0	10.9	94
APR										
06...	1010	1550	44	43	6.50	6.40	15.0	17.0	7.3	74
MAY										
11...	0940	370	83	80	7.00	7.10	15.0	17.0	8.0	82
JUN										
14...	1050	110	72	70	6.90	6.90	23.0	26.5	6.9	83
JUL										
11...	1315	275	62	60	7.10	6.90	24.5	24.5	6.2	76
AUG										
02...	0950	350	57	56	6.80	6.60	24.0	25.0	5.8	71
SEP										
13...	1840	280	68	66	6.71	6.70	24.0	24.0	6.1	74

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
05...	52	1.6	--	9	0.440	0.110	0.250	6.7
NOV								
03...	10	1.4	70	18	1.79	<0.030	0.580	3.8
DEC								
07...	9.0	1.5	230	16	1.00	0.160	0.140	2.4
JAN								
05...	25	2.3	2300	12	0.550	0.070	0.140	3.9
FEB								
08...	17	1.4	790	14	0.840	0.040	0.290	4.2
MAR								
09...	26	2.7	230	11	0.540	0.080	0.160	3.5
APR								
06...	76	2.4	4900	7	0.350	0.050	0.150	6.8
MAY								
11...	24	2.4	490	15	0.940	0.110	0.380	4.0
JUN								
14...	13	1.2	130	16	0.650	<0.030	0.170	3.1
JUL								
11...	15	1.3	80	15	0.520	0.040	0.140	3.3
AUG								
02...	40	1.5	--	9	0.520	0.110	0.180	5.5
SEP								
13...	41	0.7	330	12	0.710	0.070	0.220	8.4

02381400 CARTERS LAKE NEAR CARTERS, GA.

LOCATION.--Lat 34°36'50", long 84°40'16", Murray County, Hydrologic Unit 03150102, at forebay of dam on Coosawattee River, 1.3 mi upstream from Talking Rock Creek, 1.3 mi east of Carters, 1.9 mi upstream from Louisville and Nashville Railway bridge, and at mile 26.8.

DRAINAGE AREA.--373 mi^2.

PERIOD OF RECORD.--November 1974 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.-Lake is formed by rolled rock-filled dam. Emergency spillway (crest elevation, 1,070 ft) is equipped with five tainter gates 42 ft wide by 36.6 ft high. There is one sluice 16.5 ft in diameter. Storage began Nov. 12, 1974. Lake first reached minimum pool, elevation, 1,022 ft, Mar. 17, 1975. Power operation began July 19, 1975. Capacity at primary flood control pool elevation, 1,099 ft, 472,800 acre-ft. Capacity at maximum power pool elevation, 1,072 ft, 377,100 acre-ft. Dead storage below elevation 1,022 ft, 242,200 acre-ft. Lake is used for flood control and power.

Capacity table and monthend elevations furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 472,400 acre-ft Apr. 8, 1977, elevation, 1,099.16 ft; minimum, after first filling, 326,700 acre-ft Dec. 18, 1987, elevation, 1,055.70 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 429,600 acre-ft, June 26, elevation, 1,087.70 ft; minimum, 354.300 acre-ft, Nov. 5, elevation, 1,065.00.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

			Change in contents	
Date	Elevation (feet)	Contents (acre-feet)	(acre-feet)	(equivalent in cubic feet per second)
Sept. 30................	1066.35	358500	-	-
Oct. 31................	1066.60	359200	+700	+11
Nov. 30................	1070.30	370800	+11600	+195
Dec. 31................	1071.95	376100	+5300	+86
CAL YR 1988	-	-	+41400	+57
Jan. 31................	1074.90	385700	+9600	+156
Feb. 28................	1076.40	390600	+4900	+88
Mar. 31................	1073.00	379500	-11100	-181
Apr. 30................	1074.90	385700	+6200	+104
May 31..............	1072.40	377600	-8100	-132
June 30..............	1079.00	399400	+21800	+366
July 31................	1075.60	388000	-11400	-185
Aug. 31................	1072.80	378800	-9200	-150
Sept. 30................	1077.90	395600	+16800	+282
WTR YR 1989	-	-	+37100	+51

02382400 CARTERS RE-REGULATION DAM NEAR CARTERS, GA.

LOCATION.--Lat 34°36'15", long 84°41'29", Murray County, Hydrologic Unit 03150102, at afterbay of main dam, on Coosawattee River, 0.2 mi downstream from Talking Rock Creek, 0.2 mi upstream from Louisville and Nashville Railway bridge, 1.5 midownstream from main dam and at mile 25.3.

DRAINAGE AREA.--520 mi^2.

PERIOD OF RECORD.--July 1975 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by concrete gravity dam with earth dikes on either side. Spillway (crest elevation, 662.5 ft) is equipped with four tainter gates 42 ft wide by 36.5 ft high. Capacity at maximum storage pool elevation, 698 ft, 17,600 acre-ft. Dead storage, 290 acre-ft. The reservoir is used for storage and re-regulation of power releases from Carters main dam. Capacity table and monthend elevations furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 18,800 acre-ft, Apr. 14, 1977, elevation, 699.36 ft; minimum, 320 acre-ft, June 6, 1983, elevation, 666.98 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 17,900 acre-ft, Sept. 30, elevation, 697.50 ft; minimum, 2,600 acre-ft, Feb. 6, elevation, 676.80 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

			Change in contents	
Date	Elevation (feet)	Contents (acre-feet)	(acre-feet)	(equivalent in cubic feet per second)
Sept. 30................	685.41	7200	-	-
Oct. 31................	679.00	3800	-3400	-55
Nov. 30................	683.70	6900	+3100	+52
Dec. 31................	683.80	6900	0	0
CAL YR 1988	-	-	-600	-1
Jan. 31................	682.30	5900	-1000	-16
Feb. 28................	686.80	9100	+3200	+58
Mar. 31................	687.00	9300	+200	+3
Apr. 30................	678.70	3600	-5700	-96
May 31...............	690.30	11800	+8200	+133
June 30...............	692.10	13200	+1400	+24
July 31................	684.00	7100	-6100	-99
Aug. 31................	690.09	11700	+4600	+75
Sept. 30................	697.20	17600	+5900	+99
WTR YR 1989	-	-	+10400	+14

02393500 ALLATOONA RESERVOIR NEAR CARTERSVILLE, GA.

LOCATION.--Lat 34°09'46", long 84°43'40", Bartow County, Hydrologic Unit 03150104, at forebay of dam on Etowah River, 2.8 mi upstream from Nashville, Chattanooga, & St. Louis Railway bridge, 4 mi east of Cartersville, and 6 mi upstream from Pumpkinvine Creek.

DRAINAGE AREA.--1,120 mi^2.

PERIOD OF RECORD.--December 1949 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by concrete gravity dam. Spillway (crest elevation, 835.0 ft) is equipped with nine tainter gates 40 ft wide by 25 ft high. There are four sluices 5.67 ft by 10 ft high and one sluice 4.0 ft in diameter.

Storage began Dec. 27, 1949; water in lake first reached minimum pool elevation Feb. 5, 1950. Total capacity at elevation 860.0 ft, top of gates, is 670,000 acre-ft, of which 587,100 acre-ft is controlled storage above 800 ft, minimum pool. Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 693,800 acre-ft Apr. 10, 1964, elevation, 861.19 ft; minimum, 119,600 acre-ft Dec. 4, 1954, elevation, 809.34 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 477,500 acre-ft June 25, elevation, 848.41 ft; minimum, 228,300 acre-ft Dec. 31, elevation, 826.19 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	(equivalent in cubic feet per second)
Sept. 30................	829.45	256800	-	-
Oct. 31................	829.78	259900	+3100	+50
Nov. 30................	829.23	254800	-5100	-86
Dec. 31................	826.45	230400	-24400	-397
CAL YR 1988	-	-	+20100	+28
Jan. 31................	827.89	242800	+12400	+202
Feb. 28................	834.36	304800	+62000	+1116
Mar. 31................	838.38	348600	+43800	+712
Apr. 30................	839.90	366300	+17700	+297
May 31................	841.02	379700	+13400	+218
June 30................	844.92	429200	+49500	+832
July 31................	841.20	381900	-47300	-769
Aug. 31................	839.81	365200	-16700	-272
Sept. 30................	843.35	408800	+43600	+733
WTR YR 1989	-	-	+152000	+210

03544947 BRIER CREEK NEAR HIAWASSEE, GA.

LOCATION.–Lat 34°50'05", long 83°42'34", Towns County, Hydrologic Unit 06020002, on left bank, 0.3 mi upstream from Corbin Creek, and 8.2 mi southeast of Hiawassee.

DRAINAGE AREA.–1.67 mi² (revised).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.–May 1984 to current year.

GAGE.–Water-stage recorder. Elevation of gage is 2,180 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.–No estimated daily discharges. Records good.

AVERAGE DISCHARGE.–5 years, 3.99 ft³/s, 32.45 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, unkown, Nov. 26, 1986, gage height 3.19 ft; minimum daily discharge, 0.56 ft³/s, Oct. 15-17, 1987.

EXTREMES FOR CURRENT YEAR.–Maximum discharge, unknown, Sept. 30; gage height, 2.99 ft, was not independent of the peak discharge that occurred Oct. 1, 1989; maximum peak discharge, unknown, June 20, gage height, 2.77 ft; minimum daily discharge 0.99 ft³/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.99	1.4	5.2	9.4	3.1	16	5.2	6.5	3.3	9.5	5.9	2.7
2	5.4	1.3	4.5	8.0	3.0	11	4.9	6.5	3.2	8.4	7.0	2.6
3	7.6	1.3	4.1	6.9	2.8	9.2	5.1	5.8	3.2	14	5.7	2.5
4	7.9	1.6	3.7	5.7	2.8	8.9	6.3	5.5	3.5	20	5.2	2.4
5	4.9	4.5	3.2	5.0	4.0	22	8.6	12	3.5	16	4.8	2.4
6	3.7	2.9	3.0	5.0	4.7	22	8.3	17	3.4	17	4.5	2.6
7	2.9	2.3	2.9	4.4	5.4	17	8.7	11	3.1	20	4.2	2.5
8	2.3	2.1	2.7	4.7	5.0	13	12	8.8	3.6	16	4.0	2.3
9	2.0	1.9	2.6	5.3	4.6	10	16	10	6.9	14	3.8	2.2
10	1.8	1.9	2.5	7.6	4.2	8.7	12	13	4.9	14	3.6	2.2
11	1.7	1.8	2.4	10	4.0	7.5	10	11	4.1	12	3.5	2.5
12	1.6	1.8	2.3	14	3.7	6.9	8.5	9.3	3.8	10	3.4	2.3
13	1.5	1.8	2.3	15	3.5	6.4	7.4	8.1	3.8	9.3	3.3	2.3
14	1.5	1.7	2.2	13	3.3	6.0	6.7	7.4	4.3	8.1	3.4	2.2
15	1.4	1.7	2.1	11	3.2	6.0	7.0	6.8	16	7.4	4.4	2.3
16	1.4	2.1	2.1	8.9	3.1	6.0	6.3	6.0	23	7.1	3.7	2.8
17	1.3	2.3	2.0	7.6	3.4	5.6	5.9	5.6	17	6.7	3.5	2.3
18	1.5	2.1	1.9	6.6	4.0	5.4	5.6	5.2	11	6.2	3.2	2.1
19	1.7	2.1	1.9	5.9	3.9	5.2	5.4	5.0	13	6.3	3.1	2.1
20	1.4	7.8	1.9	5.3	5.2	5.5	5.1	5.2	48	7.1	3.0	2.0
21	1.5	7.8	1.9	4.7	13	6.7	4.9	5.0	43	7.1	2.9	3.9
22	1.4	5.8	1.8	4.4	12	6.7	4.7	4.8	42	6.8	3.0	5.5
23	1.4	4.7	2.0	4.2	6.6	8.8	4.5	4.8	39	8.0	3.1	4.3
24	1.4	4.1	2.6	4.0	7.0	11	4.4	4.5	28	8.9	3.0	3.5
25	1.3	3.5	2.5	3.8	6.1	9.3	4.3	4.3	24	7.6	2.8	13
26	1.3	3.1	2.4	3.7	5.6	7.7	4.3	4.1	23	6.9	4.0	18
27	1.3	8.7	2.3	3.6	8.0	6.8	4.1	4.0	17	6.3	3.7	9.5
28	1.3	8.7	2.6	3.4	24	6.2	4.0	3.8	14	5.7	3.1	7.3
29	1.3	7.3	2.4	3.3	—	5.9	4.3	3.7	12	5.3	2.9	15
30	1.3	6.1	3.6	3.4	—	6.0	4.5	3.5	11	5.3	2.8	49
31	1.4	—	7.0	3.1	—	5.6	—	3.4	—	5.1	2.7	—
TOTAL	69.39	106.2	86.6	200.9	161.2	279.0	199.0	211.6	435.6	302.1	117.2	176.3
MEAN	2.24	3.54	2.79	6.48	5.76	9.00	6.63	6.83	14.5	9.75	3.78	5.88
MAX	7.9	8.7	7.0	15	24	22	16	17	48	20	7.0	49
MIN	.99	1.3	1.8	3.1	2.8	5.2	4.0	3.4	3.1	5.1	2.7	2.0
CFSM	1.34	2.12	1.67	3.88	3.45	5.39	3.97	4.09	8.68	5.84	2.26	3.52
IN.	1.54	2.36	1.93	4.47	3.59	6.21	4.43	4.71	9.70	6.73	2.61	3.92

CAL YR 1988	TOTAL	1137.24	MEAN	3.11	MAX	44	MIN	.69	CFSM	1.86	IN	25.32
WTR YR 1989	TOTAL	2345.09	MEAN	6.42	MAX	49	MIN	.99	CFSM	3.84	IN	52.21

03558000 TOCCOA RIVER NEAR DIAL, GA.

LOCATION.–Lat 34°47'24", long 84°14'24", Fannin County, Hydrologic Unit 06020003, on right bank 1.4 mi upstream from Shallowford Bridge, 1.8 mi upstream from Stanley Creek, 2.5 mi northwest of Dial, and at mile 69.1.

DRAINAGE AREA.–177 mi^2.

PERIOD OF RECORD.–October 1912 to current year. Prior to January 1913 monthly discharges only, published in WSP 1306.

REVISED RECORDS.–WSP 823: Drainage area. WSP 1386: 1923(M), 1924, 1927(M), 1929-32(M), 1933, 1934(M), 1944(M).

GAGE.–Water-stage recorder. Datum of gage is 1,782.08 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1927, water-stage recorder and Oct. 1, 1927 to Nov. 16, 1928, nonrecording gage at same site and datum.

REMARKS.–Estimated daily discharges: July 14-Aug. 30. Records good, except those for the period of estimated daily discharge. which are fair.

AVERAGE DISCHARGE.–77 years, 489 ft^3/s, 37.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.–Maximum discharge, 14,700 ft^3/s, Aug. 23, 1967, gage height, 13.73 ft, from rating curve extended above 5,000 ft^3/s on basis of slope-area measurement at gage height 11.20 ft, and a contracted-opening measurement at 13.73 ft; minimum, 60 ft^3/s, Sept. 6, 1925, gage height, 0.40 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.–Flood of November 1906 reached a stage of 18.5 ft, and is highest known since about 1840, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.–Peak discharges greater than base discharge of 2,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 5	2330	2,650	5.05	July 6	1115	4,770	7.11
June 20	1730	*5,800	*7.96				

Minimum daily discharge, 119 ft^3/s, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	137	276	687	320	1110	512	813	416	776	600	354
2	862	128	256	443	315	817	495	696	410	736	610	351
3	450	124	242	400	311	719	535	559	411	1070	580	339
4	297	126	235	361	308	686	705	525	413	1130	540	328
5	228	396	226	320	435	1320	1070	968	439	980	510	324
6	196	274	220	392	569	1400	790	1300	493	2040	490	341
7	179	206	216	354	545	1100	848	808	419	1650	480	332
8	168	193	210	372	466	906	1090	696	416	1200	470	322
9	161	187	209	388	412	793	1200	768	575	1050	470	316
10	156	189	201	568	384	730	926	847	473	995	450	322
11	151	220	196	742	371	686	799	717	417	938	440	327
12	144	184	192	920	360	654	736	664	401	883	430	330
13	136	191	189	1010	351	622	693	623	488	856	420	322
14	135	178	187	778	341	599	661	606	457	790	450	341
15	134	170	186	735	334	581	713	594	1270	720	760	313
16	131	200	182	607	329	649	643	558	1370	710	600	424
17	131	318	179	530	337	563	608	535	1170	710	550	324
18	134	225	174	487	408	547	589	517	773	660	500	302
19	240	202	175	455	392	527	577	506	711	650	460	292
20	156	393	177	430	437	558	560	595	2780	750	430	287
21	169	385	177	404	898	836	545	525	2650	740	410	373
22	162	298	179	387	724	678	530	503	1940	940	390	761
23	145	265	198	374	558	779	520	619	1490	880	380	476
24	140	242	216	363	485	824	510	515	1210	950	370	371
25	133	227	246	353	452	710	519	486	1170	800	370	552
26	131	217	198	347	442	645	481	472	1160	770	400	858
27	129	426	187	358	686	604	471	473	968	710	580	504
28	130	422	209	335	1920	577	489	451	879	660	440	453
29	131	332	214	327	—	560	502	439	846	630	400	1060
30	127	298	225	349	—	576	475	432	836	600	370	1630
31	127	—	509	333	—	544	—	423	—	600	362	—
TOTAL	5832	7353	6686	14909	13890	22900	19792	19233	27451	27574	14712	13629
MEAN	188	245	216	481	496	739	660	620	915	889	475	454
MAX	862	426	509	1010	1920	1400	1200	1300	2780	2040	760	1630
MIN	119	124	174	320	308	527	471	423	401	600	362	287
CFSM	1.06	1.38	1.22	2.72	2.80	4.18	3.73	3.50	5.17	5.02	2.68	2.57
IN.	1.23	1.55	1.41	3.13	2.92	4.81	4.16	4.04	5.77	5.80	3.09	2.86

CAL YR 1988	TOTAL	92591	MEAN	253	MAX	2510	MIN	106	CFSM	1.43	IN	19.46
WTR YR 1989	TOTAL	193961	MEAN	531	MAX	2780	MIN	119	CFSM	3.00	IN	40.76

03566800 SOUTH CHICKAMAUGA CREEK AT GRAYSVILLE, GA.

LOCATION.--Lat 34°58'39", long 85°08'42", Catoosa County, Hydrologic Unit 06020001, at bridge on Graysville Road at Graysville, 200 ft above dam at Swanson Mill, and 19.5 mi above mouth.

DRAINAGE AREA.--198 mi^2.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	SPECIFIC CONDUCTANCE LAB (US/CM)	PH (STANDARD UNITS)	PH LAB (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TEMPERATURE AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV										
29...	1545	170	239	243	7.50	7.80	10.5	20.0	9.1	83
JAN										
25...	1330	190	220	224	7.40	7.70	9.5	15.0	10.7	95
MAR										
29...	1345	300	182	184	7.60	7.70	18.0	27.5	8.0	87
MAY										
24...	0630	600	233	242	7.80	7.80	21.0	15.5	7.5	86
JUL										
25...	1430	280	161	165	7.60	7.60	23.0	32.5	7.7	--
SEP										
27...	0750	390	150	152	7.50	7.40	17.0	16.0	8.1	85

DATE	TURBIDITY (NTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS TOTAL (MG/L AS CACO3)	ALKALINITY WAT WH TOT FET LAB MG/L AS CACO3	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV									
29...	25	1.5	2300	110	97	0.550	0.100	0.160	3.8
JAN									
25...	6.0	0.5	170	110	93	0.930	<0.030	0.100	3.6
MAR									
29...	11	1.4	210	84	71	0.500	0.060	0.650	3.2
MAY									
24...	8.0	1.3	700	130	98	0.570	<0.030	0.120	3.7
JUL									
25...	20	0.9	790	71	66	0.410	0.030	0.110	4.6
SEP									
27...	36	2.3	7900	70	60	0.470	<0.030	0.190	--

03567340 WEST CHICKAMAUGA CREEK NEAR LAKEVIEW, GA.

LOCATION.--Lat 34°57'26", long 85°12'20", Catoosa County, Hydrologic Unit 06020001, at bridge on State Highway 146, 3 mi southeast of Lakeview.
DRAINAGE AREA.--148 mi².
PERIOD OF RECORD.--August 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TEMPER-ATURE AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
NOV										
29...	1610	200	290	291	7.60	8.00	11.0	20.0	9.0	83
JAN										
25...	1350	170	279	278	7.50	7.60	9.0	15.0	9.5	83
MAR										
29...	1430	275	240	241	7.70	7.80	17.5	28.0	8.2	88
MAY										
24...	0700	195	269	274	7.70	7.70	21.0	15.5	7.2	83
JUL										
25...	1400	180	232	243	7.60	7.70	23.5	32.0	6.5	--
SEP										
27...	0810	345	268	273	7.50	7.50	17.0	16.0	7.4	78

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS TOTAL (MG/L AS CACO3)	ALKA-LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
NOV							
29...	16	10	1.3	2300	130	127	6
JAN							
25...	8.0	17	2.4	1100	130	111	10
MAR							
29...	13	33	2.0	80	--	105	21
MAY							
24...	24	13	1.7	490	130	116	14
JUL							
25...	10	12	0.9	50	110	105	28
SEP							
27...	31	--	2.5	7900	120	120	32

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV							
29...	0.760	0.080	0.32	0.40	1.2	0.380	3.5
JAN							
25...	1.25	0.220	0.48	0.70	2.0	1.65	4.5
MAR							
29...	0.700	0.150	0.25	0.40	1.1	0.380	3.2
MAY							
24...	0.590	0.140	0.36	0.50	1.1	0.070	4.0
JUL							
25...	0.490	0.060	0.44	0.50	0.99	0.260	5.1
SEP							
27...	0.650	0.050	--	--	--	0.480	--

03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.

LOCATION.--Lat 34°53'51", long 85°27'47", Dade County, Hydrologic Unit 06020001, at bridge on county road 2214, 0.4 mi downstream of Squirrel Town Creek (revised), 2.2 mi southeast of New England, and at mile 16.3.

DRAINAGE AREA.--149 mi^2.

PERIOD OF RECORD.--August 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 663.80 ft above National Geodetic Vertical Datum of 1929 (levels by Tennessee Valley Authority). Aug. 30, 1979 to Oct. 4, 1988, at site 200 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Daily water temperatures for November 1980 to September 1984 published in reports of U.S. Geological Survey.

AVERAGE DISCHARGE.--10 years, 232 ft^3/s, 21.14 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft^3/s, Aug. 17, 1982, gage height, 20.73 ft; minimum daily discharge, 11 ft^3/s, Aug. 17-18, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 13	1130	3,790	13.43	June 16	1000	4,990	14.33
Feb. 28	0915	*5,720	*14.80	Sept. 30	2045	4,140	13.74
Apr. 4	2030	3,910	13.53				

Minimum daily discharge, 18 ft^3/s, Oct. 15-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	25	140	1060	146	2120	316	97	53	280	81	34
2	43	24	123	616	138	1030	280	93	51	300	71	71
3	42	24	110	545	131	761	261	85	49	1690	64	51
4	38	33	99	535	125	615	1860	81	47	1510	57	33
5	32	70	89	399	191	1220	2560	108	56	1010	53	27
6	29	83	80	406	1050	1920	1050	171	164	1010	50	24
7	29	70	74	373	1040	1120	1580	120	137	863	47	24
8	31	60	68	847	706	785	1470	102	101	596	42	23
9	25	55	64	811	515	601	1370	98	104	445	40	22
10	23	55	61	971	415	483	918	116	127	348	37	25
11	22	57	57	1140	355	406	699	103	103	341	35	103
12	21	55	53	1670	304	347	546	92	87	309	33	83
13	19	54	50	3240	265	301	445	85	210	261	32	63
14	19	65	48	1750	233	268	372	80	268	215	32	50
15	18	60	46	1000	206	247	385	78	1910	183	34	123
16	18	58	43	732	185	239	335	73	4210	162	35	184
17	19	58	40	556	184	208	282	66	1110	150	38	98
18	19	60	38	452	241	213	251	62	663	131	42	72
19	27	61	37	375	346	224	230	60	506	120	38	58
20	28	724	37	319	319	342	210	73	453	116	35	50
21	24	581	37	271	1250	834	192	119	521	114	33	44
22	23	295	37	237	920	589	176	79	550	107	35	48
23	23	208	45	212	621	725	163	163	407	135	45	51
24	21	168	114	191	468	818	151	129	313	134	38	54
25	20	142	124	172	384	611	139	102	250	118	64	62
26	20	122	99	157	337	484	130	84	206	101	40	117
27	20	224	91	152	932	399	121	86	173	90	72	92
28	22	214	89	139	5150	336	113	109	322	83	45	74
29	21	182	89	129	---	297	106	76	580	78	32	1450
30	23	158	285	152	---	412	100	64	314	82	36	3680
31	24	---	1020	161	---	382	---	58	---	107	32	---
TOTAL	786	4045	3387	19770	17157	19337	16811	2912	14045	11189	1368	6890
MEAN	25.4	135	109	638	613	624	560	93.9	468	361	44.1	230
MAX	43	724	1020	3240	5150	2120	2560	171	4210	1690	81	3680
MIN	18	24	37	129	125	208	100	58	47	78	32	22
CFSM	.17	.91	.73	4.28	4.11	4.19	3.76	.63	3.14	2.42	.30	1.54
IN.	.20	1.01	.85	4.94	4.28	4.83	4.20	.73	3.51	2.79	.34	1.72

CAL YR 1988	TOTAL	35632	MEAN	97.4	MAX	2470	MIN	11	CFSM	.65	IN 8.90
WTR YR 1989	TOTAL	117697	MEAN	322	MAX	5150	MIN	18	CFSM	2.16	IN 29.38

03553000 NOTTELY LAKE NEAR IVYLOG, GA.

LOCATION.--Lat 34°57'29", long 84°05'22", Union County, Hydrologic Unit 06020002, at dam on Nottely River, 1.3 mi upstream from Dooley Creek, 1.7 mi southwest of Ivylog, 2.5 mi upstream from Georgia-North Carolina State line, and at mile 21.0.

DRAINAGE AREA.--214 mi^2.

PERIOD OF RECORD.--.January 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929.

REMARKS.--Lake is formed by rock and rolled earthfill dam with side channel spillway equipped with flashboards. Storage began Jan. 24, 1942; water in lake first reached minimum pool elevation Jan. 26, 1942. Total capacity at elevation 1,780.00 ft, top of flashboards, is 87,900 ft^3/s-days, of which 59,100 ft^3/s-days is controlled storage above elevation 1,735.00 ft, normal minimum pool. Lake is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 94,100 ft^3/s-days Apr. 20, 1943, elevation, 1,780.50 ft; maximum elevation, 1,781.47 ft May 28, 1973; minimum (after first filling), 200 ft^3/s-days Oct. 6, 1947, elevation, 1638.6 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 87,300 ft^3/s-days June 21, elevation, 1,779.72 ft; minimum, 40,500 ft^3/s-days Dec. 30, elevation, 1,748.10 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	(equivalent in cubic feet per second)
Sept. 30................	1755.00	48000	-	-
Oct. 31................	1754.22	47100	-900	-29
Nov. 30................	1753.44	46200	-900	-30
Dec. 31................	1748.60	41000	-5200	-168
CAL YR 1988	-	-	-2300	-6
Jan. 31................	1751.92	44500	+3500	+113
Feb. 28................	1756.41	49700	+5200	+186
Mar. 31................	1762.57	57600	+7900	+255
Apr. 30................	1772.06	72400	+14800	+493
May 31................	1777.77	83200	+10800	+348
June 30................	1777.98	83600	+400	+13
July 31................	1779.17	86100	+2500	+81
Aug. 31................	1773.17	74400	-11700	-377
Sept. 30................	1770.94	70500	-3900	-130
WTR YR 1989	-	-	+22500	+62

03558500 BLUE RIDGE LAKE NEAR BLUE RIDGE, GA.

LOCATION.--Lat 34°52'52", long 84°16'49", Fannin County, Hydrologic Unit 06020003, 400 ft upstream from Blue Ridge Dam on Toccoa River, 2.5 mi northeast of Blue Ridge, and at mile 53.0.

DRAINAGE AREA.--232 mi^2.

PERIOD OF RECORD.--December 1930 to current year (prior to Aug. 16, 1939, only midnight readings available).

GAGE.--Water-stage recorder. Datum of gage is at Tennessee Electric Power Company datum; to convert to National Geodetic Vertical Datum of 1929, subtract 0.18 ft from elevations given herein.

REMARKS.--Lake is formed by earth dam. Spillway equipped with five tainter gates 15 ft high by 22 ft wide. Dam completed and storage began Dec. 6, 1930. Total capacity at elevation 1,691.00 ft, top of gates, is 98,800 ft^3/s-days, of which 92,800 ft^3/s-days is controlled storage above 1,590.00 ft, normal minimum pool. Lake is used for power and recreation. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents recorded, 102,100 ft^3/s-days Feb. 11, 1946, elevation, 1,691.54 ft; minimum (after first filling), 6,500 ft^3/s-days Jan. 16, 1956, elevation, 1,587.75 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 97,500 ft^3/s-days June 21, elevation, 1,690.23 ft; minimum, 19,600 ft^3/s-days Oct. 18, elevation, 1,620.17 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

			Change in contents	
Date	Elevation (feet)	Contents (cfs-days)	(cfs-days)	(equivalent in cubic feet per second)
Sept. 30................	1641.37	35200	-	-
Oct. 31................	1624.16	22100	-13100	-423
Nov. 30................	1628.50	25000	+2900	+97
Dec. 31................	1638.76	33000	+8000	+258
CAL YR 1988	-	-	-21800	-60
Jan. 31................	1657.42	51400	+18400	+594
Feb. 28................	1667.95	64100	+12700	+454
Mar. 31................	1683.67	86800	+22700	+732
Apr. 30................	1686.90	92000	+5200	+173
May 31................	1687.10	92300	+300	+10
June 30................	1688.14	94000	+1700	+57
July 31................	1687.20	92500	-1500	-48
Aug. 31................	1682.05	84300	-8200	-265
Sept. 30................	1680.95	82600	-1700	-57
WTR YR 1989	-	-	+47400	+130

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, peak discharge information is gathered and discharge measurements are often made at sites not included in the partial-record program. This information is usually collected in times of drought or flood to give better areal coverage to those events.

Records collected at crest-stage partial-record stations are presented in the following table. Peak discharges at miscellaneous sites and discharge measurements made at low-flow partial-record sites, miscellaneous sites, and for special studies are given in separate tables as appropriate.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1989

					Annual maximum		
Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		SAVANNAH RIVER BASIN					
02191930	Buffalo Creek near Lexington, Ga.	Lat 33°46'40", long 83°03'01", Oglethorpe County, Hydrologic Unit 03060104, at culvert on State Highway 22, 7 mi southeast of Lexington.	5.80	1964-89	04-15-89	4.53	330
02195150	Kiokee Creek at Appling, Ga.	Lat 33°32'33", long 82°18'56", Columbia County, Hydrologic Unit 03060106, at U.S. Highway 221, at at Appling.	43.9	1984-89	02-21-89	9.21	814
02196605	Raes Creek tributary No. 1 at Augusta, Ga.	Lat 33°29'36", long 82°02'17", Richmond County, Hydrologic Unit 0306106, at culvert on Boy Scout Road at Augusta.	1.67	1979-89	07-12-89	8.08	1,640
02196725	Oates Creek at Augusta, Ga.	Lat 33°27'19", long 82°00'23", Richmond County, Hydrologic Unit 030600106, at culvert on White Road at Augusta.	1.44	1979-89	10-03-88	5.59	201
02196760	Rocky Creek tributary at Augusta, Ga.	Lat 33°27'07", long 82°02'57", Richmond County, Hydrologic Unit 03060106, at culvert on U.S. Highways 78 and 278 at Augusta.	1.56	1979-89	10-03-88	6.31	519
02197190	McBean Creek near McBean, Ga.	Lat 33°14'12", long 82°02'38", Richmond-Burke County line, Hydrologic Unit 03060106, at State Highway 21, 5.5 miles west of McBean.	41.4	1963-89	1989	(b)	<180

b Peak stage did not reach bottom of gage.
< Less than.

Annual maximum discharge at crest-stage partial-record stations during water year 1989

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft^3/s)
		OGEECHEE RIVER BASIN					
02200000	Ogeechee River at Jewell, Ga.	Lat 33°17'48", long 82°46'40", Hancock-Warren County line, Hydrologic Unit 03060201, at State Highway 16, at Jewell.	242	1971, 1984-89	10-04-88	11.73	2,620
02200400	Rocky Comfort Creek near Grange, Ga.	Lat 33°06'09", long 82°34'02", Jefferson County, Hydrologic Unit 03060201, at State Highway 88, 1.5 miles northeast of Grange.	188	1979-89	04-11-89	10.91	1,190
02200930	Spring Creek (prior to 1987, published as Ogeechee River tributary) near Louisville, Ga.	Lat 32°55'20", long 82°18'49", Jefferson County, Hydrologic Unit 03060201, at culvert on State Highway 17, 8.5 miles southeast of Louisville.	14.2	1965-89	1989	(b)	<92
02202605	Mill Creek near Pembroke, Ga.	Lat 32°09'39", long 81°36'15", Bryan County, Hydrologic Unit 03060202, at culvert on State Highway 119, near Pembroke.	5.39	1979-89	09-21-89	2.51	136
02203543	Wilshire Canal near Savannah, Ga.	Lat 31°59'27", long 81°08'15", Chatham County, Hydrologic Unit 03060204, at culvert on Tibet Avenue near Savannah.	0.95	1979-89	06-30-89	6.61	185
02203544	Wilshire Canal tributary near Savannah, Ga.	Lat 31°58'25", long 81°08'20", Chatham County, Hydrologic Unit 03060204, at culvert on Windsor Road near Savannah.	.18	1979-89	07-23-89	3.08	68
		ALTAMAHA RIVER BASIN					
02203835	Shoal Creek near Atlanta, Ga.	Lat 33°44'48", long 84°16'50", DeKalb County, Hydrologic Unit 03070103, at culvert on Line Street near Atlanta.	3.43	1974-89	06-20-89	5.09	719
02203845	Shoal Creek tributary near Atlanta, Ga.	Lat 33°43'05", long 84°15'45", DeKalb County, Hydrologic Unit 03070103, at culvert on Glendale Drive near Atlanta.	.84	1973-78, 1980-89	06-20-89	5.75	560
02203884	Conley Creek near Forest Park, Ga.	Lat 33°38'08", long 84°20'37", Clayton County, Hydrologic Unit 03070103, at culvert on Rock Cut Road near Forest Park.	1.88	1973-78, 1980-89	06-20-89	5.21	543
02204135	Camp Creek tributary near Stockbridge, Ga.	Lat 33°34'35", long 84°08'50", Henry County, Hydrologic Unit 03070103, at culvert on State Highway 155, 5 miles northeast of Stockbridge.	.28	1977-89	06-21-89	3.29	8
02214280	Savage Creek near Bullard, Ga.	Lat 32°35'34", long 83°28'11", Twiggs County, Hydrologic Unit 03070104, at U.S. Highway 23, 3 miles southeast of Bullard.	33.0	1979-89	06-21-89	8.28	175

b Peak did not reach bottom of gage.

< Less than.

Annual maximum discharge at crest-stage partial-record stations during water year 1989

Station no.	Station name	Location	Drainage area (mi2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft3/s)
		ALTAMAHA RIVER BASIN--Continued					
02214820	Mossy Creek near Perry, Ga.	Lat 32°31'15", long 83°43'23", Houston County, Hydrologic Unit 03070104, at U.S. Highway 41, 4.5 miles north of Perry.	92.9	1979-89	04-11-89	5.33	<150
02215245	Folsom Creek tributary near Rochelle, Ga.	Lat 32°00'15", long 83°25'58", Wilcox County, Hydrologic Unit 03070104, at culvert on State Highway 233, 4 miles north of Rochelle.	1.44	1965-89	06-21-89	1.98	45
02215800	Gum Swamp Creek near Chauncey, Ga.	Lat 32°07'28", long 83°03'37", Dodge County, Hydrologic Unit 03070105, at State Highway 165, 1.6 miles north of Chauncey.	221	1984-89	04-11-89	6.23	710
02217380	Mulberry River near Winder, Ga.	Lat 34°03'08", long 83°39'49", Barrow-Jackson County line, Hydrologic Unit 03070101, at State Highway 11, 4.5 miles northeast of Winder.	142	1976, 1984-89	06-21-89	10.79	2,560
02217400	Mulberry River tributary near Winder, Ga.	Lat 34°03'53", long 83°39'45", Jackson County, Hydrologic Unit 03070101, at culvert on State Highway 11, 6 miles northeast of Winder.	2.68	1965-89	06-21-89	3.34	496
02217505	Brooklyn Creek at Athens, Ga.	Lat 33°56'32", long 83°24'07", Clarke County, Hydrologic Unit 03070101, at culvert on Dudley Drive, at Athens.	1.44	1979-89	07-21-89	8.05	354
02217905	Tanyard Creek at Athens, Ga.	Lat 33°57'05", long 83°22'42", Clarke County, Hydrologic Unit 03070101, at culvert on Baxter Street at Athens.	0.42	1979-89	06-21-89	7.50	333
02223082	Buffalo Creek near Linton, Ga.	Lat 33°06'27", long 82°57'34", Hancock-Washington County line, Hydrologic Unit 03070102, at Hancock County Road 787, 2 miles southeast of Linton.	92.9	1985-89	04-15-89	12.80	1,780
02223349	Big Sandy Creek tributary near Irwinton, Ga.	Lat 32°48'11", long 83°13'37", Wilkinson County, Hydrologic Unit 03070102, at culvert on White Springs Road, 1.7 miles southwest of Irwinton.	c.50	1978-89	07-20-89	2.08	26
02224100	Turkey Creek near Dublin, Ga.	Lat 32°27°21", long 82'56'32", Laurens County, Hydrologic Unit 03070102, at U.S. Highways 319 and 441, 5 miles south of Dublin.	316	1984-89	04-15-89	11.67	1,590
02225250	Little Ohoopee River near Swainsboro, Ga.	Lat 32°33'44", long 82°28'03", Emanuel County, Hydrologic Unit 03070107, at U.S. Highway 80, 9 miles west of Swainsboro.	216	1970, 1972, 1980-89	1989	(b)	<2,300

b Peak stage did not reach bottom of gage.

c Approximately.

< Less than.

Annual maximum discharge at crest-stage partial-record stations during water year 1989

Station no.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		ALTAMAHA RIVER BASIN--Continued					
02225330	Beaver Creek near Cobbtown, Ga.	Lat 32°16'52", long 82°11'27", Tattnall County, Hydrologic Unit 03070107, at culvert on State Highway 152, 3.2 miles west of Cobbtown.	9.58	1965-89	04-15-89	2.95	70
		SATILLA RIVER BASIN					
02226465	Dryden Creek near Dixie Union, Ga.	Lat 31°20'23", long 82°28'43", Ware County, Hydrologic Unit 0307201, at culvert on County Road 469, 0.7 mile west of Dixie Union.	14.7	1978-89	1989	5.95	(d)
02227422	Crooked Creek tributary near Bristol, Ga.	Lat 31°26'24", long 82°15'03", Pierce County, Hydrologic Unit 03070202, on County Road 1903, 2 miles west of Bristol.	0.42	1976-89	09-04-89	1.73	29
02227990	Satilla River tributary No. 2 at Atkinson, Ga.	Lat 31°13'32", long 81°51'10", Brantley County, Hydrologic Unit 03070201, on County Road 153 (revised), 0.3 mile north of Atkinson.	.38	1977-89	09-22-89	0.93	9
02228055	Satilla River tributary No. 3 near Winokur, Ga.	Lat 30°59'59", long 81°57'30", Charlton County, Hydrologic Unit 03070201, at county road, 5.3 miles southeast of Winokur.	1.91	1980-89	03-23-89	7.21	100
		SUWANNEE RIVER BASIN					
02317600	Little River near Statenville, Ga.	Lat 30°42'13", long 83°07'18", Echols County, Hydrologic Unit 03110202, at State Highway 376, 5 miles west of Statenville.	199	1984-89	06-21-89	9.64	472
02317810	Arnold Creek tributary (prior to 1987, published as Little River tributary No. 2) near Tifton, Ga.	Lat 31°25'30", long 83°34'23", Tift County, Hydrologic Unit 03110204, at culvert on secondary road 546, 4 miles southwest of Tifton.	.47	1965-89	04-15-89	1.10	16
		OCHLOCKONEE RIVER BASIN					
02327350	Ochlockonee River tributary near Coolidge, Ga.	Lat 31°01'33", long 83°57'32", Thomas County, Hydrologic Unit 03120002, at culvert on State Highway 202, 5.5 miles west of Coolidge.	1.81	1965-89	07-20-89	2.52	210
02327355	Ochlockonee River near Coolidge, Ga.	Lat 31°00'08", long 83°56'21", Thomas County, Hydrologic Unit 03120002, at State Highway 188, 4 miles west of Coolidge.	260	1981-89	07-20-89	12.36	2,380

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Annual maximum discharge at crest-stage partial-record stations during water year 1989

Station no.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		OCHLOCKONEE RIVER BASIN--Continued					
02327415	Little Ochlockonee River near Moultrie, Ga.	Lat 31°07'02", long 83°58'42", Colquitt County, Hydrologic Unit 03120002, at State Highway 111, 10 miles west of Moultrie.	44.8	1981-89	07-20-89	7.19	1,030
02327860	Popple Branch near Whigham, Ga.	Lat 30'55'36", long 84'15'18", Grady County, Hydrologic Unit 03120002, at culvert on State Highway 179, 3.2 miles north of Whigham.	1.71	1977-89	06-20-89	2.82	146
		APALACHICOLA RIVER BASIN					
02336090	North Fork Peachtree Creek tributary near Chamblee, Ga.	Lat 33°50'53", long 84'17'57", DeKalb County, Hydrologic Unit 03130001, at culvert on Meadowcliff Drive near Chamblee.	0.32	1974-89	06-20-89	4.62	83
02336102	North Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°50'20", long 84°19'19", DeKalb County, Hydrologic Unit 03130001, at culvert on Drew Valley Road near Atlanta.	2.19	1973-78, 1980-89	07-03-89	6.24	748
02336238	South Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°47'11", long 84°20'29", DeKalb County, Hydrologic Unit 03130001, at culvert on East Rock Springs Road near Atlanta.	.90	1974-89	06-20-89	4.37	541
02336700	South Utoy Creek tributary at East Point, Ga.	Lat 33°41'25", long 84°28'05", Fulton County, Hydrologic Unit 03130002, at culvert on Headland Drive at East Point.	.79	1964-69††, 1970-78, 1980-89	1989	(b)	<140
02337448	Hurricane Creek tributary near Fairplay, Ga.	Lat 33°35'03", long 84°50'54", Douglas County, Hydrologic Unit 03130002, at culvert on State Highway 5, 8 miles east of Fairplay.	.33	1977-89	06-20-89	4.72	45
02340250	Flat Shoal Creek near West Point, Ga.	Lat 32°53'53", long 85°04'41", Troup County, Hydrologic Unit 03130002, at State Highway 18, 5 miles east of Interstate Highway 85, near West Point.	204	1984-89	04-06-89	10.83	2,100
02341220	Mulberry Creek near Mulberry Grove, Ga.	Lat 32°42'11", long 84°57'29", Harris County, Hydrologic Unit 03130002, at county bridge on Hamilton-Mulberry Grove Road, near Mulberry Grove.	190	1984-89	06-21-89	19.27	5,510
02341544	Mill Branch at Columbus, Ga.	Lat 32°28'19", long 84°53'58", Muscogee County, Hydrologic Unit 03130003, at culvert on Chalbena Road at Columbus.	1.58	1977-89	08-26-89	5.51	547

b Peak stage did not reach bottom of gage.

†† Operated as a continuous-record gaging station.

< Less than.

Annual maximum discharge at crest-stage partial-record stations during water year 1989

Station no.	Station name	Location	Drainage area (mi2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft3/s)
		APALACHICOLA RIVER BASIN--Continued					
02341546	Bull Creek tributary at Columbus, Ga.	Lat 32°28'38", long 84°55'36", Muscogee County, Hydrologic Unit 03130003, at culvert on Woodland Drive at Columbus.	0.26	1977-89	07-03-89	4.08	65
02341548	Lindsey Creek tributary at Columbus, Ga.	Lat 32°31'33", long 84°56'21", Muscogee County, Hydrologic Unit 03130003, at culvert on Canberra Avenue at Columbus.	1.42	1977-89	07-03-89	5.91	437
02341600	Juniper Creek near Geneva, Ga.	Lat 32°31'41", long 84°34'14", Talbot-Marion County line, Hydrologic Unit 03130003, at State Highway 41, 1.8 miles south of Geneva.	47.4	1963-89	04-06-89	6.28	434
02341723	Pine Knot Creek near Juniper, Ga.	Lat 32°26'14", long 84°39'25", Marion County, Hydrologic Unit 03130003, at State Highway 355, 8 miles south of Juniper.	31.3	1979-89	03-13-86 03-01-87 04-17-86 04-06-89	3.85 4.62 5.12 4.92	a112 a180 a238 214
02341900	Ochillee Creek near Cusseta, Ga.	Lat 32°21'53", long 84°49'02", Chattahoochee County, Hydrologic Unit 03130003, at Hourglass Road, 5 miles northwest of Cusseta.	53.3	1979-89	04-06-89	6.72	531
02343219	Bluff Springs Branch near Lumpkin, Ga.	Lat 32°01'53", long 84°53'18", Stewart County, Hydrologic Unit 03130003, at culvert on State Highway 27, 5.8 miles southwest of Lumpkin.	2.98	1977-89	07-20-89	1.68	93
02343244	Cemochechobee Creek near Coleman, Ga.	Lat 31°39'12", long 84°53'02", Randolph County, Hydrologic Unit 03130004, at County Road bridge 1576, 1.5 miles south of Coleman.	15.3	1984-89	06-20-89	5.47	(†)
02343267	Temple Creek near Blakely, Ga.	Lat 31°26'34", long 84°59'00", Early County, Hydrologic Unit 03130004, at culvert on State Highway 39, 5.2 miles north of Blakely.	2.78	1978-89	07-20-89	1.41	42
02346195	Lazar Creek near Talbotton, Ga.	Lat 32°44'33", long 84°33'20", Talbot County, Hydrologic Unit 03130005, at State Highway 41, 5 miles south of Talbotton.	81.3	1981, 1984-89	06-21-89	13.78	3,090
02346217	Coleoatchee Creek (formerly published as Celeoth Creek) near Manchester, Ga.	Lat 32°49'20", long 84°36'16", Talbot County, Hydrologic Unit 03130005, at culvert on County Road 39 (revised), 5 miles southeast of Manchester.	2.82	1969-86, 1989	1989	(b)	<8

a Revised.

b Peak did not reach bottom of gage.

† Discharge not determined.

< Less than.

Annual maximum discharge at crest-stage partial-record stations during water year 1989

APALACHICOLA RIVER BASIN--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
02348485	Whitewater Creek near Butler, Ga.	Lat 32°30'14", long 84°20'03", Taylor County, Hydrologic Unit 03130005, at State Highway 137, 6.5 miles southwest of Butler.	17.3	1981-89	07-20-89	5.86	60
02349030	Cedar Creek near Rupert, Ga.	Lat 32°23'21", long 84°17'49", Taylor County, Hydrologic Unit 03130005, at U.S. Highway 19, 3 miles south of Rupert.	41.1	1980-89	04-06-89	2.31	117
02349330	Buck Creek tributary near Tazewell, Ga.	Lat 32°20'50", long 84°22'26", Schley County, Hydrologic Unit 03130006, at culvert on State Highway 240, 4.3 miles east of Tazewell.	c0.40	1977-89	06-20-89	2.22	24
02349350	Buck Creek near Ellaville, Ga.	Lat 32°18'35", long 84°17'36", Schley County, Hydrologic Unit 03130006, at U.S. Highway 19, 5 miles north of Ellaville.	146	1979-89	07-20-89	4.64	197
02349695	Horsehead Creek near Montezuma, Ga.	Lat 32°21'28", long 83°56'11", Macon County, Hydrologic Unit 03130006, at culvert on State Highway 224, 8.7 miles northeast of Montezuma.	.72	1977-89	07-20-89	2.38	35
02350685	Choctahatchee Creek tributary near Plains, Ga.	Lat 32°02'02", long 84°25'59", Sumter County, Hydrologic Unit 03130007, at culvert on U.S. Highway 280, 2.4 miles west of Plains.	.32	1977-89	07-20-89	1.06	6
02356640	Spring Creek at Colquitt, Ga.	Lat 31°10'14", long 84°44'34", Miller County, Hydrologic Unit 03130010, at U.S. Highway 27 at Colquitt.	281	1981-89	06-20-89	8.54	2,540

MOBILE RIVER BASIN

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
02384600	Pinhook Creek (prior to 1986, published as Mill Creek tributary) near Eton, Ga.	Lat 34°49'38", long 84°46'58", Murray County, Hydrologic Unit 03150101, at culvert on State Highway 286, 3 miles west of Eton.	4.28	1965-89	02-21-89	4.73	254
02384630	Conasauga River near Dawnville, Ga.	Lat 34°48'03", long 84°50'18", Whitfield-Murray County line, Hydrologic Unit 03150101, 2.6 miles southeast of Dawnville.	303	1984-89	1989	17.51	(†)
02394820	Euharlee Creek at Rockmart, Ga.	Lat 33°59'55", long 85°03'09", Polk County, Hydrologic Unit 03150104, at U.S. Highway 278 (State Highway 6) at Rockmart.	42.1	1961, 1974, 1979, 1984-89	07-20-89	8.50	1,450

c Approximately.

† Discharge not determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1989

Station no.	Station name	Location	Drainage area (mi2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft3/s)
		MOBILE RIVER BASIN--Continued					
02395990	Etowah River tributary near Rome, Ga.	Lat 34°16'02", long 85°08'18", Floyd County, Hydrologic Unit 03150104, at culvert on Atteiram Road near Rome.	.37	1979-89	02-28-89	7.34	175
02396510	Silver Creek tributary No. 2 at Lindale Road, near Rome, Ga.	Lat 34°12'56", long 85°10'09", Floyd County, Hydrologic Unit 03150104, at culvert on Lindale Road, near Rome.	.04	1979-89	02-28-89	3.48	44
02396550	Silver Creek tributary No. 3 at Rome, Ga.	Lat 34°13'26", long 85°09'14", Floyd County, Hydrologic Unit 03150104, at culvert on U.S. Highway 27, 0.4 mile north of U.S. Highway 411 interchange at Rome.	0.19	1979-89	02-28-89	5.35	181
02397830	Harrisburg Creek near Hawkins, Ga.	Lat 34°36'02", long 85°23'21", Walker County, Hydrologic Unit 03150105, at bridge on County Road 91, 0.7 mile west of Hawkins.	13.3	1980-82††, 1983-89	02-28-89	7.30	825
02411735	McClendon Creek tributary near Dallas, Ga.	Lat 33°50'59", long 84°57'20", Paulding County, Hydrologic Unit 03150108, at culvert on State Highway 120, 9.3 miles southwest of Dallas.	.88	1977-89	06-21-89	2.92	164
02411902	Mann Creek tributary near Tallapoosa, Ga.	Lat 33°51'16", long 85°17'28", Haralson County, Hydrologic Unit 03150108, at culvert on State Highway 100, 7 miles north of Tallapoosa.	.12	1977-89	03-06-89	3.74	52

†† Operated as a continuous-record gaging station.

Peak discharge at miscellaneous sites

The following table contains peak discharges at sites not included in the continuous gaging or crest-stage partial-record program. These discharges are generally obtained for discontinued gaging stations, discontinued crest-stage partial-record stations, or other miscellaneous sites to give better areal coverage of flood events.

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (ft)	Discharge (ft^3/s)
		SAVANNAH RIVER BASIN					
02191300	Broad River above Carlton, Ga. (Prior to 1918 published as near Carlton.)	Lat 34°04'24", long 83°00'12", Madison-Elbert County line, Hydrologic Unit 03060104, at State Highway 72, 2.8 mi northest of Carlton.	760	1898-1912, 1913-18g, 1920-83g, 1986-89	07-17-89	13.63	m7,220
		OGEECHEE RIVER BASIN					
02202000	Ogeechee River at Scarboro, Ga.	Lat 32°42'38", long 81°52'46", Jenkins County Hydrologic Unit 03060202, at abandoned highway bridge at Scarboro, 7.5 mi southeast of Millen.	c1,940	1938-71† 1972-89	04-19-89	8.39	m5,030
		ALTAMAHA RIVER BASIN					
02203900	South River near Atlanta, Ga.	Lat 33°39'58", long 84°13'29", DeKalb County, Hydrologic Unit 03070103, at Flakes Mill Road, 8 mi east of Atlanta city limits.	c99	1951-79†, 1980-83††, 1984-89	06-21-89	11.41	m4,960
02207500	Yellow River near Covington, Ga.	Lat 33°56'52", long 83°54'54", Newton County Hydrologic Unit 03070103, at U.S. Highway 278, 3.5 mi northwest of Covington.	378	1936, 1945-60, 1961-64, 1976-82††, 1983-89	07-21-89	14.30	m5,090
		APALACHICOLA RIVER BASIN					
02331000	Chattahoochee River near Leaf, Ga.	Lat 34°34'37", long 83°38'09", Habersham, County, Hydrologic Unit 03130001, at State Highway 115, 1.5 mi east of Leaf.	150	1940-71††, 1972-84, 1986-89	02-28-89	4.77	m2,180
02350600	Kinchafoonee Creek at Preston, Ga.	Lat 32°03'09", long 84°32'54", Webster County, Hydrologic Unit 03130007, at bridge on State Highway 41, 1 mi southwest of Preston, and 1 mi upstream from Harrell Mill Creek.	197	1951-77††, 1978-80, 1987-89	04-11-89	6.25	m1,190
		TENNESSEE RIVER BASIN					
03545000	Hiwassee River at Presley, Ga.	Lat 34°54'17", long 83°42'01", Towns County, Hydrologic Unit 06020002, on left bank, 0.1 mi downstream from Cynth Creek, 0.5 mi southeast of Presley, and at mile 133.9.	45.5	1942-82††, 1983-89	06-20-89	4.86	m1,010
03550500	Nottley River near Blairsville, Ga.	Lat 34°50'28", long 83°56'10", Union County, Hydrologic Unit 06020002, on left bank 250 ft upstream from Arkaqua Creek, 2.7 mi southeast of Blairsville, and at mile 44.3.	74.8	1942-82††, 1983-89	01-20-88 06-20-89	6.63 6.30	m2,100 m1,940

c Approximately.
m Annual maximum.
† Operated as a continuous-record gaging station.
†† Operated as a crest-stage partial-record station.

ACTIVE AND DISCONTINUED GAGING STATIONS

The following list contains discontinued and currently operated continuous-record streamflow stations on streams within the State of Georgia and its border with adjacent States. Daily streamflow record were collected and published for the periods of record shown for each station. Some stations have monthly figures published for additional periods other than those noted in the period of record column.

Station no.	Station name	Latitude	Longitude	Drainage area (mi^2)	Period(s) of record
02177000	Chattooga River near Clayton	34°48'50"	83°18'22"	207	Oct. 1, 1939 to Sept. 30, 1989
02178000	Chattooga River near Tallulah Falls	34°47'31"	83°19'22"	256	Jan. 1, 1917 to Jan. 27, 1918 Oct. 1, 1918 to Sept. 30, 1929
02178400	Tallulah River near Clayton	34°53'25"	83°31'50"	56.5	July 15, 1964 to Sept. 30, 1989
02179000	Tallulah River near Seed	34°46'32"	83°31'17"	129	Jan. 1, 1916 to Apr. 25, 1920
02180500	Tiger Creek at Lakemont	34°46'52"	83°24'54"	26.0	Jan. 11, 1916 to Sept. 30, 1918
02181000	Tallulah River at Mathis	34°46'44"	83°24'43"	177	Mar. 27, 1913 to Sept. 30, 1916
02181500	Tallulah River at Tallulah Falls	34°44'16"	83°23'51"	183	July 15, 1904 to June 30, 1909 Aug. 16, 1909 to June 30, 1910 July 20, 1910 to Sept. 30, 1912
02182000	Panther Creek near Toccoa	34°40'40"	83°20'43"	32.5	Oct. 1, 1942 to Sept. 30, 1971
02184000	Tugaloo River near Hartwell	34°29'06"	82°54'33"	909	Apr. 28, 1925 to Sept. 30, 1927 Feb. 1, 1940 to Sept. 30, 1960
02187252	Savannah River below Hartwell Lake near Hartwell	34°21'15"	82°48'55"	2.090	Oct. 1, 1984 to Sept. 30, 1989
02187500	Savannah River near Iva, S.C.	34°15'20"	82°44'42"	2.230	Oct. 1, 1950 to Sept. 30, 1981
02188500	Beaverdam Creek at Dewy Rose	34°10'52"	82°56'38"	38.4	Oct. 1, 1942 to Sept. 30, 1977
02188600	Beaverdam Creek above Elberton	34°10'07"	82°53'48"	72.0	Oct. 1, 1986 to Sept. 30, 1989
02188680	Beaverdam Creek near Elberton	34°08'29"	82°51'15"	89.6	Oct. 1, 1984 to June 30, 1986
02189000	Savannah River near Calhoun Falls, S.C.	34°04'15"	82°38'30"	2.880	Oct. 1, 1896 to Apr. 30, 1898 Apr. 1, 1899 to Sept. 30, 1900 Apr. 1, 1930 to Apr. 30, 1932 Apr. 1, 1938 to Sept. 30, 1979
02189050	North Fork Broad River above Toccoa	34°34'25"	83°22'00"	3.66	Oct. 1, 1958 to Sept. 30, 1969
02189100	Denmans Creek near Toccoa	34°34'22"	83°22'00"	0.74	Apr. 15, 1956 to Sept. 30, 1969
02189500	North Fork Broad River near Toccoa	34°30'49"	83°19'19"	18.3	May 1, 1954 to Sept. 30, 1969
02189600	Bear Creek near Mize	34°29'07"	83°18'38"	3.62	Dec. 1, 1956 to Sept. 30, 1969
02190000	North Fork Broad River near Lavonia	34°27'10"	83°14'23"	42.0	May 1, 1954 to Sept. 30, 1969
02190100	Toms Creek near Eastanollee	34°29'01"	83°14'02"	3.79	Oct. 1, 1956 to Sept. 30, 1969
02190200	Toms Creek near Avalon	34°29'35"	83°13'23"	1.20	Oct. 1, 1954 to Sept. 30, 1969
02190500	Toms Creek near Martin	34°27'47"	83°13'19"	10.3	June 17, 1954 to Sept. 30, 1969
02191000	North Fork Broad River near Carnesville	34°19'25"	83°11'10"	119	Oct. 1, 1942 to Dec. 31, 1944 May 1, 1954 to Sept. 30, 1969
02191200	Hudson River at Homer	34°20'15"	83°29'17"	61.1	June 1, 1959 to Sept. 30, 1979
02191500	Broad River near Carlton	34°03'56"	82°59'33"	762	July 1, 1897 to Dec. 31, 1912
02191970	Little Macks Creek near Lexington	33°56'09"	82°57'41"	1.77	Dec. 5, 1974 to Sept. 30, 1985
02192000	Broad River near Bell	33°58'27"	82°46'12"	1,430	Nov. 1, 1926 to July 31, 1932 Aug. 1, 1937 to Sept. 30, 1989
02193340	Kettle Creek near Washington	33°40'57"	82°51'29"	33.9	Apr. 16, 1986 to Sept. 30, 1989
02193500	Little River near Washington	33°36'40"	82°44'40"	291	Oct. 1, 1949 to June 23, 1971
02194000	Little River near Lincolnton	33°38'40"	82°28'40"	574	Jan. 1, 1943 to Mar. 31, 1951
02196820	Butler Creek at Fort Gordon	33°26'36"	82°07'43"	7.50	Oct. 1, 1968 to Sept. 30, 1989
02197000	Savannah River at Augusta	33°22'25"	81°56'35"	7,510	Apr. 1, 1883 to Sept. 30, 1891 Apr. 1, 1896 to Sept. 30, 1906 Apr. 1, 1925 to Sept. 30, 1989
02197320	Savannah River near Jackson, S.C.	33°13'01"	81°46'04"	7,800	Oct. 1, 1971 to Sept. 30, 1989
02197500	Savannah River at Burtons Ferry Bridge near Millhaven	32°56'20"	81°30'10"	8.650	Oct. 1, 1939 to Sept. 30, 1970 Oct. 1, 1982 to Sept. 30, 1989
02197520	Brier Creek near Thomson	33°22'06"	82°28'06"	55.0	July 18, 1967 to Sept. 30, 1989
02197550	Little Brier Creek near Thomson	33°20'24"	82°27'29"	24.0	June 24, 1960 to June 30, 1967
02197600	Brushy Creek near Wrens	33°10'37"	82°18'21"	28.0	May 29, 1958 to Sept. 30, 1989
02197830	Brier Creek near Waynesboro	33°07'05"	81°57'50"	473	July 1, 1969 to Sept. 30, 1989
02198000	Brier Creek at Millhaven	32°56'00"	81°39'05"	646	Apr. 14, 1937 to Sept. 30, 1989
02198100	Beaverdam Creek near Sardis	32°56'15"	81°48'56"	30.8	June 7, 1986 to Sept. 30, 1989
02198500	Savannah River near Clyo	32°31'30"	81°15'45"	9.850	Apr. 1, 1930 to Sept. 30, 1933 Oct. 1, 1937 to Sept. 30, 1989
02200500	Ogeechee River near Louisville	32°58'03"	82°23'26"	800	Apr. 1, 1937 to Dec. 31, 1949
02201000	Williamson Swamp Creek at Davisboro	32°58'32"	82°36'36"	109	May 7, 1980 to Sept. 30, 1989
02202000	Ogeechee River at Scarboro	32°42'38"	81°52'46"	1.940	Apr. 1, 1937 to June 30, 1971
02202500	Ogeechee River near Eden	32°11'29"	81°24'58"	2.650	Apr. 27, 1937 to Sept. 30, 1989
02202600	Black Creek near Blitchton	32°10'04"	81°29'18"	232	Feb. 14, 1980 to Sept. 30, 1989
02203000	Canoochee River near Claxton	32°11'05"	81°53'20"	555	May 26, 1937 to Sept. 30, 1989
02203500	Canoochee River near Groveland	32°05'55"	81°43'43"	921	June 23, 1903 to Dec. 31, 1907
02203559	Peacock Creek at McIntosh	31°48'49"	81°31'13"	33.0	Oct. 1, 1966 to Sept. 30, 1977
02203600	South River at East Point	33°40'50"	84°25'15"	1.49	Oct. 1, 1963 to Sept. 30, 1969

Station no.	Station name	Latitude	Longitude	Drainage area (mi2)	Period(s) of record
02203900	South River at Flakes Mill Road near Atlanta	33°39'58"	84°13'29"	99.0	Aug. 23. 1979 to Sept. 30, 1983
02204070	South River at Klondike Road near Lithonia	33°37'47"	84°07'43"	182	Oct. 1, 1983 to Sept. 30, 1989
02204285	Pates Creek near Flippen	33°29'34"	84°14'44"	11.9	Aug. 9, 1977 to Sept. 30, 1984
02204500	South River near McDonough	33°29'48"	84°00'53"	456	Oct. 1, 1939 to Sept. 30, 1960 Oct. 1, 1975 to Sept. 30, 1982
02205000	Wildcat Creek near Lawrenceville	34°00'08"	84°00'18"	1.59	Oct. 1, 1953 to Sept. 30. 1982
02205500	Pew Creek near Lawrenceville	33°56'05"	84°01'00"	2.23	Oct. 1, 1953 to Sept. 30, 1963
02206000	Shetley Creek near Norcross	33°57'20"	84°09'40"	0.98	Oct. 1, 1953 to Sept. 30, 1963
02206500	Yellow River near Snellville	33°51'11"	84°04'45"	134	Oct. 1, 1942 to Sept .30, 1971 Oct. 1, 1987 to Sept. 30, 1989
02207000	Garner Creek near Snellville	33°51'45"	84°05'50"	5.54	Oct. 1, 1953 to Sept. 30, 1963
02207500	Yellow River near Covington	33°36'52"	83°54'54"	378	Sept. 12, 1897 to Dec. 31, 1897 May 9, 1899 to Dec. 31, 1901 July 1, 1944 to Sept. 30, 1960 Oct. 1, 1975 to Sept. 30, 1982
02208450	Alcovy River above Covington	33°38'24"	83°46'45"	185	Jan. 26, 1972 to Sept. 30, 1989
02208500	Alcovy River near Covington	33°35'35"	83°48'29"	228	May 1, 1901 to Dec. 31, 1904
02209000	Alcovy River below Covington	33°30'21"	83°49'30"	244	Oct. 1, 1928 to Apr. 30, 1932 July 1, 1944 to Dec. 31, 1949
02209500	Alcovy River near Stewart	33°25'22"	83°49'43"	291	Sept. 16. 1905 to Dec. 31, 1906
02210500	Ocmulgee River near Jackson	33°18'28"	83°50'18"	1.420	May 18. 1906 to Sept. 30. 1915 Aug. 1, 1939 to Sept. 30, 1960 Oct. 1, 1975 to Sept. 30, 1982 Mar. 1, 1987 to Sept. 30, 1989
02211300	Towaliga River near Jackson	33°15'50"	84°04'17"	105	June 1, 1960 to Sept. 30, 1971
02211459	Big Towaliga Creek near Barnesville	33°04'20"	84°11'04"	2.36	Oct. 1, 1974 to Sept. 30, 1980
02211500	Towaliga River near Forsyth	33°07'17"	83°56'36"	315	Feb. 1, 1929 to Mar. 31, 1932 July 1, 1944 to Dec. 31, 1949
02212500	Ocmulgee River at Juliette	33°05'50"	83°47'10"	1.960	June 1, 1916 to Sept. 30, 1921 July 12, 1974 to May 15, 1988
02212600	Falling Creek near Juliette	33°05'59"	83°43'25"	72.2	July 7, 1964 to Sept. 30, 1989
02213000	Ocmulgee River at Macon	32°50'19"	83°37'14"	2.240	Feb. 1, 1893 to July 31, 1912 Oct. 1, 1928 to Sept. 30, 1989
02213050	Walnut Creek near Gray	32°58'20"	83°37'08"	29.0	Oct. 1, 1961 to Sept. 30, 1989
02213470	Tobesofkee Creek above Macon	32°52'02"	83°50'24"	156	Apr. 1, 1967 to Sept. 30, 1971
02213500	Tobesofkee creek near Macon	32°48'32"	83°45'30"	182	Apr. 1, 1937 to Sept. 30, 1989
02213700	Ocmulgee River near Warner Robins	32°40'17"	83°36'11"	2.690	Oct. 1, 1972 to Sept. 30, 1989
02214000	Echeconnee Creek near Macon	32°45'54"	83°50'22"	147	Apr. 1, 19[illegible] to Sept. 30, 1943
02214500	Big Indian Creek at Perry	32°27'20"	83°44'21"	108	Oct. 1, 1943 to July 31, 1971
02215000	Ocmulgee River at Hawkinsville	32°16'50"	83°27'40"	3.800	Oct. 1, 1928 to Dec. 31, 1931 Oct. 1, 1943 to Sept. 30, 1959
02215100	Tucsawhatchee Creek near Hawkinsville	32°14'22"	83°30'06"	163	Apr. 1, 1986 to Sept. 30, 1989
02215400	Big Horse Creek near Lumber City	31°51'07"	82°49'37"	155	Oct. 1, 1958 to Dec. 31, 1961
02215500	Ocmulgee River at Lumber City	31°55'06"	82°40'26"	5.180	Oct. 1, 1936 to Sept. 30, 1989
02216000	Little Ocmulgee River at Towns	32°00'28"	82°45'10"	351	Apr. 1, 1937 to Dec. 31, 1946
02216180	Turnpike Creek near McRae	31°59'29"	82°55'19"	49.2	Jan. 1, 1983 to Sept. 30, 1989
02216610	Tillman Mill Creek near Lumber City	31°58'53"	82°38'32"	2.71	Oct. 1, 1974 to Sept. 30, 1985
02217000	Allen Creek at Talmo	34°11'34"	83°43'11"	17.3	July 7, 1951 to Sept. 30, 1971
02217475	Middle Oconee River near Arcade	34°01'54"	83°33'48"	340	Mar. 1, 1987 to Sept. 30. 1989
02217500	Middle Oconee River near Athens	33°56'48"	83°25'22"	398	Oct. 1, 1901 to Sept. 30. 1902 Jan. 1, 1929 to Mar. 31, 1932 May 1, 1937 to Sept. 30, 1989
02217900	North Oconee River at Athens	33°56'55"	83°22'04"	278	Oct. 1, 1928 to Mar. 31, 1932 June 24, 1944 to Dec. 31, 1949
02218300	Oconee River near Penfield	33°43'16"	83°17'44"	940	Aug. 1, 1977 to Sept. 30, 1989
02218500	Oconee River near Greensboro	33°34'52"	83°16'22"	1.090	Aug. 1, 1903 to Sept. 30, 1932 Apr. 1, 1937 to Sept. 30, 1978
02219000	Apalachee River near Bostwick	33°47'17"	83°28'27"	176	July 1, 1944 to Dec. 31, 1949 Apr. 28, 1977 to Sept. 30, 1989
02219500	Apalachee River near Buckhead	33°36'31"	83°20'58"	436	Jan. 1, 1901 to Dec. 31, 1908 Apr. 1, 1937 to Sept. 30, 1978
02220500	Oconee River near Sparta	33°20'05"	83°08'38"	1.830	Oct. 1, 1949 to Apr. 15, 1953
02220550	Whitten Creek near Sparta	33°23'12"	83°01'34"	15.0	June 22, 1960 to Apr. 16, 1986
02220900	Little River near Eatonton	33°18'50"	83°26'14"	262	Aug. 1, 1977 to Sept. 30, 1989
02221000	Murder Creek near Monticello	33°24'56"	83°39'43"	24.0	Oct. 1, 1951 to Sept. 30, 1971
02221525	Murder Creek below Eatonton	33°15'08"	83°28'53"	190	Apr. 27, 1977 to Sept. 30, 1989
02223000	Oconee River at Milledgeville	33°05'22"	83°12'56"	2.950	Sept. 1, 1903 to Sept. 30, 1989

Station no.	Station name	Latitude	Longitude	Drainage area (mi2)	Period(s) of record
02223300	Big Sandy Creek near Jeffersonville	32°48'15"	83°25'04"	31.0	Oct. 1, 1958 to Sept. 30, 1971
02223500	Oconee River at Dublin	32°32'40"	82°53'41"	4,400	Oct. 1, 1897 to Sept. 30, 1989
02224000	Rocky Creek near Dudley	32°29'38"	83°08'49"	62.9	Dec. 1, 1951 to Sept. 30, 1976
02224500	Oconee River near Mt. Vernon	32°11'28"	82°38'00"	5,110	Oct. 1, 1937 to Dec. 31, 1955
02225000	Altamaha River near Baxley	31°56'20"	82°21'13"	11,600	Aug. 14, 1949 to June 30, 1951 Oct. 1, 1970 to Sept. 30, 1989
02225500	Ohoopee River near Reidsville	32°04'42"	82°10'39"	1,110	June 24, 1903 to Dec. 31, 1907 May 25, 1937 to Sept. 30, 1989
02226000	Altamaha River at Doctortown	31°39'16"	81°49'41"	13,600	Oct. 1, 1931 to Sept. 30, 1989
02226100	Penholoway Creek near Jesup	31°34'00"	81°50'18"	210	July 1, 1958 to Sept. 30, 1989
02226500	Satilla River near Waycross	31°14'17"	82°19'29"	1,200	Apr. 1, 1937 to Sept. 30, 1989
02226600	Burket Creek near Roper	31°47'42"	82°37'33"	7.10	July 1, 1956 to Sept. 30, 1963
02226700	Whitehead Creek near Denton	31°44'00"	82°41'26"	28.0	July 1, 1956 to Sept. 30, 1963
02226900	Hurricane Creek near Hazelhurst	31°40'58"	82°34'15"	102	July 1, 1956 to Sept. 30, 1963
02227000	Hurricane Creek near Alma	31°34'00"	82°27'50"	139	Oct. 1, 1951 to Sept. 30, 1971
02227500	Little Satilla River near Offerman	31°27'04"	82°03'17"	646	Jan. 27, 1951 to Sept. 30, 1989
02228000	Satilla River at Atkinson	31°13'16"	81°52'03"	2,790	Mar. 21, 1930 to Sept. 30, 1989
02228500	North Prong St Marys River at Moniac	30°31'03"	82°13'50"	160	Feb. 1, 1921 to Dec. 31, 1923 Feb. 1, 1927 to June 30, 1930 Aug. 1, 1932 to June 30, 1934 Oct. 1, 1950 to Sept. 30, 1989
02231000	St Marys River near Macclenny, FL	30°21'31"	82°04'54"	700	Oct. 1, 1926 to Sept. 30, 1989
02231253	St Marys River near Gross, FL	30°44'29"	81°41'17"	1,360	Apr. 1, 1966 to May 31, 1975 Oct. 1, 1980 to Sept. 30, 1983 Oct. 1, 1984 to Sept. 30, 1989
02314500	Suwannee River at Fargo	30°40'50"	82°33'38"	1,260	Jan. 28, 1927 to Dec. 9, 1931 Apr. 20, 1937 to Sept. 30, 1989
02316000	Alapaha River near Alapaha	31°23'03"	83°11'33"	663	Apr. 26, 1937 to Sept. 30, 1976
02317000	Alapaha River at Mayday	30°49'40"	83°01'05"	1,300	Oct. 1, 1928 to Dec. 9, 1931
02317500	Alapaha River at Statenville	30°42'14"	83°02'00"	1,400	Jan. 28, 1921 to June 30, 1921 Dec. 10, 1931 to Sept. 30, 1989
02317748	Withlacoochee River near Bemiss	30°57'24"	83°16'12"	501	Oct. 13, 1976 to Dec. 31, 1981
023177483	Withlacoochee River at McMillan Road near Bemiss	30°56'50"	83°16'22"	502	June 11, 1988 to Sept. 30, 1989
02317755	Withlacoochee River at U.S. 41 near Valdosta	30°53'33"	83°19'08"	537	Oct. 20, 1976 to Sept. 30, 1978 Aug. 31, 1988 to Jan. 3, 1990
02317830	Little River near Lenox	31°15'15"	83°30'32"	208	May 1, 1967 to Sept. 30, 1971 Oct. 1, 1976 to Sept. 30, 1978
02318000	Little River near Adel	31°09'18"	83°32'38"	577	June 12, 1940 to Sept. 30, 1971
02318500	Withlacoochee River near Quitman	30°47'35"	83°27'13"	1,480	Oct. 1, 1928 to Dec. 11, 1931 June 9, 1937 to May 31, 1948 Sept. 29, 1988 to Sept. 30, 1989
02318700	Okapilco Creek at State Route 33 near Quitman	30°49'32"	83°33'45"	269	Dec. 21, 1979 to Sept. 30, 1989
02327500	Ochlockonee River near Thomasville	30°52'32"	84°02'44"	550	Aug. 11, 1937 to June 30, 1971
02328000	Tired Creek near Cairo	30°51'54"	84°15'46"	60.0	Oct. 1, 1943 to Feb. 29, 1948 Apr. 26, 1948 to June 30, 1971
02330450	Chattahoochee River at Helen	34°42'03"	83°43'44"	44.6	May 5, 1981 to Sept. 30, 1989
02331000	Chattahoochee River near Leaf	34°34'37"	83°38'09"	150	Feb. 21, 1940 to Sept. 30, 1971
02331500	Soque River near Demorest	34°34'23"	83°35'27"	156	July 16, 1904 to June 30, 1909 May 30, 1929 to Dec. 25, 1931 Mar. 27, 1940 to Dec. 31, 1951
02331600	Chattahoochee River near Cornelia	34°32'27"	83°37'14"	315	Aug. 21, 1957 to Sept. 30, 1989
02332000	King Branch near Alto	34°27'05"	83°36'45"	0.42	May 1, 1944 to Sept. 30, 1948
02333000	Chattahoochee River near Gainesville	34°19'17"	83°52'46"	559	June 26, 1901 to Sept. 27, 1902 Dec. 28, 1902 to Dec. 31, 1903 Apr. 28, 1937 to Feb. 29, 1956
02333500	Chestatee River near Dahlonega	34°31'41"	83°56"23"	153	July 8, 1929 to Jan. 31, 1932 Apr. 1, 1940 to Sept. 30, 1989
02334430	Chattahoochee River at Buford Dam near Buford	34°09'25"	84°04'44"	1,040	Oct. 1, 1971 to Sept. 30, 1989
02334500	Chattahoochee River near Buford	34°07'34"	84°05'37"	1,060	Jan. 27, 1942 to Sept. 30, 1971
02334885	Suwanee Creek near Suwanee	34°01'56"	84°05'22"	46.8	Oct. 1, 1984 to Sept. 30, 1989
02335000	Chattahoochee River near Norcross	33°59'50"	84°12'07"	1,170	Jan. 1, 1903 to Sept. 30, 1946 Oct. 1, 1956 to Sept. 30, 1989
02335450	Chattahoochee River at Eves Road above Roswell	33°59'09"	84°18'58"	1,220	July 7, 1976 to Sept. 30, 1989

Station no.	Station name	Latitude	Longitude	Drainage area (mi^2)	Period(s) of record
02335500	Chattahoochee River near Roswell	34°00'20"	84°19'53"	1.230	Oct. 1, 1941 to May 10, 1960
02335700	Big Creek near Alpharetta	34°03'02"	84°16'10"	72.0	May 1, 1960 to Sept. 30, 1989
02335870	Sope Creek near Marietta	33°57'14"	84°26'36"	29.2	Oct. 1, 1984 to Sept. 30, 1989
02336000	Chattahoochee River at Atlanta	33°51'33"	84°27'16"	1,450	Aug. 1, 1928 to Dec. 31, 1931 Oct. 1, 1936 to Sept. 30, 1989
02336300	Peachtree Creek at Atlanta	33°49'10"	84°24'28"	86.8	June 20, 1958 to Sept. 30, 1989
02336380	Nancy Creek at Randall Mill Road at Atlanta	33°51'35"	84°25'28"	34.8	Oct. 1, 1963 to Sept. 30, 1964
02336490	Chattahoochee River at State Route 280 near Atlanta	33°49'01"	84°28'48"	1,600	Mar. 3, 1981 to Sept. 30, 1989
02336500	Chattahoochee River at Oakdale	33°48'46"	84°29'19"	1.600	Oct. 1, 1895 to Aug. 31, 1903 Nov. 1, 1903 to May 31, 1904
02336700	South Utoy Creek Tributary at Headland Drive at East Point	33°41'25"	84°28'05"	0.79	Oct. 1, 1963 to Sept. 30, 1969
02337000	Sweetwater Creek near Austell	33°46'22"	84°36'53"	246	May 18, 1904 to Dec. 31, 1905 Mar. 24, 1937 to Sept. 30, 1989
02337100	North Fork Camp Creek at Atlanta	33°39'40"	84°30'40"	5.25	Oct. 1, 1963 to Sept. 30, 1969
02337170	Chattahoochee River near Fairburn	33°39'24"	84°40'25"	2.060	July 16, 1965 to Sept. 30, 1989
02337500	Snake Creek near Whitesburg	33°31'46"	84°55'42"	37.0	Sept. 15, 1954 to Sept. 30, 1989
02338000	Chattahoochee River near Whitesburg	33°28'37"	84°54'04"	2.430	Oct. 1, 1938 to June 30, 1954 Jan. 1, 1965 to Sept. 30, 1989
02338500	Chattahoochee River at Franklin	33°16'45"	85°06'00"	2.680	June 1, 1928 to Oct. 31, 1931 Oct. 1, 1938 to Sept. 30, 1939 Oct. 1, 1957 to Sept. 30, 1959
02338660	New River near Corinth	33°14'07"	84°59'16"	127	Oct. 1, 1978 to Sept. 30, 1989
02338840	Yellowjacket Creek near Hogansville	33°08'22"	84°58'31"	91.0	Oct. 1, 1978 to Sept. 30, 1985
02339000	Yellowjacket Creek near LaGrange	33°05'27"	85°03'40"	182	Jan. 20, 1951 to Mar. 31, 1971
02339500	Chattahoochee River at West Point	32°53'10"	85°10'56"	3.550	Aug. 1, 1896 to Sept. 30, 1989
02340000	Mill Creek near Warm Springs	32°52'03"	84°47'04"	0.87	Dec. 17, 1933 to Apr. 30, 1935
02340500	Mountain Oak Creek near Hamilton	32°44'28"	85°04'08"	61.7	Dec. 22, 1943 to Sept. 30, 1971
02341500	Chattahoochee River at Columbus	32°27'45"	84°59'52"	4.670	Aug. 23, 1929 to Sept. 30, 1989
02341800	Upatoi Creek near Columbus	32°24'48"	84°49'12"	342	Apr. 1, 1968 to Sept. 30, 1989
02342000	Upatoi Creek at Fort Benning	32°22'35"	84°56'40"	447	Oct. 1, 1942 to Dec. 31, 1947
02342850	Hannahatchee Creek at Union	32°09'10"	84°54'21"	121	June 1, 1964 to Sept. 30, 1965
02343200	Pataula Creek near Lumpkin	31°56'03"	84°48'12"	70.0	June 21, 1958 to Sept. 30, 1971
02343260	Chattahoochee River at Fort Gaines	31°36'15"	85°03'19"	7.570	Oct. 1, 1960 to Sept. 30, 1962
02343500	Chattahoochee River at Columbia, Ala.	31°17'11"	85°05'45"	8.040	July 27, 1928 to Sept. 30, 1960
02343801	Chattahoochee River at Andrews Lock and Dam at Columbia, Ala.	31°15'33"	85°06'37"	8.210	Oct. 1, 1975 to Sept. 30, 1989
02344000	Chattahoochee River at Alaga, Ala.	31°06'54"	85°02'43"	8.340	May 1, 1938 to Dec. 31, 1944 Oct. 1, 1960 to Sept. 30, 1970
02344300	Camp Creek near Fayetteville	33°31'00"	84°25'39"	17.2	June 1, 1960 to Sept. 30, 1973
02344350	Flint River near Lovejoy	33°24'56"	84°23'05"	130	May 7, 1985 to Sept. 30, 1989
02344500	Flint River near Griffin	33°14'39"	84°25'45"	272	Mar. 1, 1937 to Sept. 30, 1989
02344700	Line Creek near Senoia	33°19'10"	84°31'25"	101	Sept. 1, 1964 to Sept. 30, 1989
02345000	Flint River near Molena	32°59'21"	84°31'45"	990	Oct. 1, 1945 to June 30, 1953
02345500	Flint River near Woodbury	32°57'59"	84°31'58"	1.090	Apr. 1, 1900 to Sept. 30, 1920
02346180	Flint River near Thomaston	32°50'20"	84°25'27"	1.220	May 21, 1966 to Sept. 30, 1989
02346500	Potato Creek near Thomaston	32°54'15"	84°21'45"	186	Oct. 1, 1937 to June 30, 1971
02347500	Flint River near Culloden	32°43'17"	84°13'57"	1,850	July 1, 1911 to May 31, 1923 July 21, 1928 to Dec. 31, 1931 Mar. 18, 1937 to Sept. 30, 1989
02348500	Whitewater Creek near Butler	32°28'02"	84°15'59"	80.0	Oct. 1, 1943 to Sept. 30, 1951
02349000	Whitewater Creek below Rambulette Creek near Butler	32°28'00"	84°15'58"	93.4	Oct. 1, 1951 to Sept. 30, 1971
02349500	Flint River at Montezuma	32°17'53"	84°02'38"	2.900	Oct. 1, 1904 to Dec. 31, 1909 Jan. 1, 1911 to Dec. 31, 1912 July 1, 1930 to Sept. 30, 1989
02349900	Turkey Creek at Byromville	32°11'44"	83°54'03"	45.0	June 20, 1958 to Sept. 30, 1989
02350000	Flint River near Vienna	32°03'38"	83°58'36"	3.390	Oct. 1, 1926 to Sept. 30, 1930
02350080	Lime Creek near Cobb	32°02'06"	83°59'33"	61.8	Apr. 30, 1983 to Jan. 11, 1984
02350220	Gum Creek at Coney	31°57'40"	83°53'05"	73.0	Apr. 30, 1983 to Jan. 11, 1984
02350300	Cedar Creek near Cordele	31°54'45"	83°51'18"	34.0	Apr. 30, 1983 to Jan. 11, 1984
02350500	Flint River at Oakfield	31°46'07"	83°59'24"	3.860	Oct. 1, 1929 to Dec. 31, 1958
02350512	Flint River at State Highway 32 near Oakfield	31°43'30"	84°01'07"	3.880	May 1, 1987 to Sept. 30, 1989
02350600	Kinchafoonee Creek at Preston	32°03'09"	84°32'54"	197	Oct. 1, 1951 to Sept. 30, 1977
02350900	Kinchafoonee Creek near Dawson	31°45'52"	84°15'12"	527	Mar. 7, 1985 to Sept .30, 1989

Station no.	Station name	Latitude	Longitude	Drainage area (mi2)	Period(s) of record
02351000	Kinchafoonee Creek near Leesburg	31°43'10"	84°11'08"	586	Apr. 1, 1906 to Dec. 31, 1909
02351890	Muckalee Creek at State Route 195 near Leesburg	31°46'34"	84°08'22"	362	Dec. 15, 1979 to Sept. 30, 1989
02352500	Flint River at Albany	31°35'39"	84°08'39"	5.310	Oct. 1, 1901 to June 30, 1921 Oct. 1, 1929 to Sept. 30, 1989
02353000	Flint River at Newton	31°18'34"	83°20'06"	5.740	Apr. 1, 1938 to Sept. 30, 1945 Oct. 1, 1946 to Sept. 30, 1947 Jan. 1, 1949 to Sept. 30, 1950 Oct. 1, 1956 to Sept. 30, 1989
02353400	Pachitla Creek near Edison	31°33'17"	84°40'43"	188	June 9, 1959 to Sept. 30, 1971 Mar. 24, 1988 to Sept. 30, 1989
02353500	Ichawaynochaway Creek at Milford	31°22'58"	84°32'52"	620	Sept. 1, 1905 to Dec. 31, 1907 Oct. 1, 1939 to Sept. 30, 1989
02354000	Alligator Creek near Milford	31°21'17"	84°33'58"	14.0	Jan. 1, 1942 to May 31, 1952
02354500	Chickasawhatchee Creek at Elmodel	31°21'09"	84°29'10"	320	Oct. 1, 1939 to Dec. 31, 1949
02355000	Ichawaynochaway Creek at Newton	31°16'00"	84°29'00"	1,020	Aug. 10, 1937 to Mar. 31, 1939 Oct. 1, 1939 to Sept. 30, 1947
02355500	Big Cypress Creek near Milford	31°15'15"	84°36'18"	12.0	Jan. 1, 1942 to Dec. 31, 1949
02356000	Flint River at Bainbridge	30°54'41"	84°34'48"	7,570	Oct. 1, 1907 to Dec. 31, 1913 Oct. 1, 1928 to Sept. 30, 1971
02356500	Long Branch near Damascus	31°17'55"	84°42'11"	18.0	Feb. 1, 1945 to Dec. 31, 1949
02357000	Spring Creek near Iron City	31°02'23"	84°44'18"	485	June 11, 1937 to Apr. 30, 1971 Dec. 20, 1976 to Sept. 30, 1978 June 7, 1982 to Sept. 30, 1989
02379000	Cartecay River near Cartecay	34°38'19"	84°24'32"	86.4	July 1, 1904 to Dec. 31, 1905 Dec. 12, 1918 to June 30, 1921
02379500	Cartecay River near Ellijay	34°40'53"	84°27'20"	134	Mar. 17, 1937 to Sept. 30, 1977
02380000	Ellijay River at Ellijay	34°41'06"	84°28'40"	87.7	May 4, 1907 to Dec. 31, 1907 Dec. 10, 1918 to June 30, 1921 Feb. 26, 1953 to Sept. 30, 1969
02380500	Coosawattee River near Ellijay	34°40'18"	84°30'31"	236	Oct. 1, 1938 to Dec. 31, 1949 June 1, 1963 to Sept. 30, 1989
02381000	Mountaintown Creek near Ellijay	34°45'00"	84°33'25"	31.5	Oct. 1, 1939 to Dec. 31, 1942
02381500	Coosawattee River near Carters	34°36'45"	84°40'15"	374	Sept. 12, 1925 to Dec. 10, 1931 Oct. 1, 1961 to Sept. 30, 1964
02381600	Fausett Creek near Talking Rock	34°34'17"	84°27'55"	9.99	Oct. 1, 1974 to Sept. 30, 1989
02381950	Scarecorn Creek above Hinton	34°27'11"	84°33'28"	6.4	July 22, 1986 to Sept. 30, 1989
02382000	Scarecorn Creek at Hinton	34°28'04"	84°35'30"	21.3	Apr. 1, 1939 to Dec. 31, 1942 May 1, 1959 to Sept. 30, 1974 Aug. 1, 1986 to Sept. 30, 1989
02382200	Talking Rock Creek near Hinton	34°31'22"	84°36'40"	119	Nov. 1, 1973 to Sept. 30, 1989
02382300	Talking Rock Creek near Carters	34°35'20"	84°40'05"	142	Oct. 1, 1963 to Sept. 30, 1971
02382500	Coosawattee River at Carters	34°36'13"	84°41'44"	521	Sept. 1, 1896 to Dec. 1, 1908 Dec. 21, 1918 to Sept. 30, 1923 Oct. 1, 1961 to Sept. 7, 1972 Oct. 1, 1974 to Sept. 30, 1989
02383000	Rock Creek near Fairmount	34°21'32"	84°46'46"	6.17	Oct. 1, 1951 to Sept. 30, 1974
02383500	Coosawattee River near Pine Chapel	34°33'51"	84°49'59"	831	Nov. 11, 1938 to Sept. 30, 1989
02384000	Conasauga River near Tennga	35°00'34"	84°44'02"	108	May 27, 1929 to Dec. 31, 1931 Oct. 1, 1943 to Dec. 31, 1947
02384500	Conasauga River near Eton	34°49'40"	84°51'03"	252	Oct. 1, 1981 to Sept. 30, 1989
02384540	Mill Creek near Crandall	34°52'19"	84°43'17"	8.27	Jan. 30, 1985 to Sept. 30, 1989
02385000	Coahulla Creek near Varnell	34°53'43"	84°55'15"	86.7	Oct. 1, 1939 to Dec. 31, 1942
02385500	Mill Creek at Dalton	34°47'18"	84°58'30"	40.1	Aug. 1, 1943 to Sept. 30, 1959
02385800	Holly Creek near Chatsworth	34°43'00"	84°46'12"	64.0	June 1, 1960 to Sept. 30, 1989
02386000	Rock Crek at Ramhurst	34°42'42"	84°44'03"	16.5	Apr. 1, 1939 to June 30, 1940
02386500	Drowning Bear Creek near Dalton	34°43'30"	84°56'12"	13.9	Apr. 1, 1939 to June 30, 1940
02387000	Conasauga River at Tilton	34°40'00"	84°55'42"	687	June 5, 1937 to Sept. 30, 1989
02387500	Oostanaula River at Resaca	34°34'42"	84°56'29"	1,600	Nov. 1, 1892 to Sept. 30, 1989
02388000	West Armurchee Creek near Subligna	34°34'04"	85°09'16"	36.4	Apr. 1, 1939 to June 30, 1940 May 1, 1960 to Apr. 27, 1982
02388300	Heath Creek near Rome	34°21'57"	85°16'17"	14.7	May 9, 1968 to Sept. 30, 1989
02388320	Heath Creek below Rocky Mountain Damsite near Armuchee	34°22'18"	85°15'50"	16.6	Mar. 2, 1982 to Sept. 30, 1989
02388500	Oostanaula River at Rome	34°18'02"	85°08'30"	2,120	Oct. 1, 1939 to Sept. 30, 1989
02389000	Etowah River near Dawsonville	34°22'57"	84°03'21"	107	Mar. 20, 1940 to Sept. 30, 1976
02389300	Shoal Creek near Dawsonville	34°25'13"	84°08'47"	21.7	June 1, 1958 to Sept. 30, 1974

Station no.	Station name	Latitude	Longitude	Drainage area (mi^2)	Period(s) of record
02389500	East Amicalola Creek at Juno	34°28'28"	84°11'55"	28.5	Apr. 1, 1939 to Sept. 30, 1942
02390000	Amicalola Creek near Dawsonville	34°25'32"	84°12'43"	89.0	Apr. 1, 1939 to May 31, 1952
02390500	Long Swamp Creek near Ballground	34°19'36"	84°20'41"	76.6	Oct. 1, 1918 to Sept. 30, 1921
02391000	Etowah River near Ballground	34°19'05"	84°20'35"	477	Apr. 1, 1907 to Dec. 31, 1915 Oct. 1, 1918 to Sept. 30, 1921
02391500	Sharp Mountain Creek near Ballground	34°20'15"	84°24'26"	63.8	Apr. 1, 1939 to June 30, 1940
02392000	Etowah River at Canton	34°14'23"	84°29'47"	613	Oct. 1, 1896 to Sept. 30, 1905 Oct. 1, 1936 to Sept. 30, 1989
02392500	Little River near Roswell	34°07'09"	84°23'18"	60.0	Jan. 1, 1947 to Sept. 30, 1976
02394000	Etowah River at Allatoona Dam at Cartersville	34°09'47"	84°44'28"	1,120	Sept. 1, 1938 to Sept. 30, 1989
02394950	Hills Creek near Taylorsville	34°04'27"	84°57'02"	25.0	May 21, 1959 to Sept. 30, 1974
02395000	Etowah River near Kingston	34°12'24"	84°58'44"	1.630	July 18, 1928 to Dec. 31, 1931 Oct. 1, 1936 to Sept. 30, 1989
02395120	Two Run Creek near Kingston	34°14'34"	84°53'23"	33.1	May 2, 1980 to Sept. 30, 1989
02395500	Dykes Creek near Rome	34°15'30"	85°05'01"	14.9	Jan. 1, 1939 to Dec. 31, 1942
02396000	Etowah River at Rome	34°15'26"	85°09'30"	1.820	Aug. 1, 1904 to June 30, 1921 Oct. 1, 1938 to Sept. 30, 1989
02397000	Coosa River near Rome	34°12'01"	85°15'24"	4.040	Oct. 1, 1896 to Dec. 31, 1903 June 21, 1928 to Dec. 31, 1931 Mar. 10, 1937 to Dec. 31, 1958 Oct. 1, 1962 to Sept. 30, 1989
02397410	Cedar Creek at Cedartown	33°59'45"	85°15'53"	66.9	May 4, 1981 to Sept. 30, 1989
02397500	Cedar Creek near Cedartown	34°03'38"	85°18'41"	115	Oct. 1, 1942 to Sept. 30, 1973
02397830	Harrisburg Creek near Hawkins	34°36'02"	85°23'21"	13.3	Oct. 1, 1979 to Sept. 30, 1982
02398000	Chattooga River at Summerville	34°28'03"	85°20'19"	193	Mar. 11, 1937 to Sept. 30, 1989
02411800	Little River near Buchanan	33°47'50"	85°07'05"	20.2	June 1, 1959 to Sept. 30, 1985
02413000	Little Tallapoosa River at Carrollton	33°35'50"	85°04'49"	95.1	Apr. 1, 1937 to Dec. 31, 1955
03544947	Brier Creek near Hiawassee	34°50'05"	83°42'34"	a/1.67	May 25, 1984 to Sept. 30, 1989
03545000	Hiawassee River at Presley	34°54'17"	83°43'01"	45.5	Dec. 1, 1941 to Mar. 31, 1982
03545500	Hightower Creek near Presley	34°54'59"	83°41'55"	32.4	Dec. 1, 1941 to Sept. 30, 1945
03550500	Nottley River near Blairsville	34°50'28"	83°56'10"	74.8	Jan. 23, 1942 to Mar. 31, 1982
03551000	Coosa Creek near Blairsville	34°51'05"	83°59'35"	21.1	Dec. 12, 1941 to Sept. 30, 1945
03551500	Youngcane Creek near Youngcane	34°52'41"	84°03'57"	27.6	Jan. 21, 1942 to Sept. 30, 1945
03552000	Ivylog Creek near Ivylog	34°56'26"	84°01'27"	16.7	Feb. 14, 1942 to Sept. 30, 1945
03552500	Nottely River near Ivylog	34°55'32"	84°03'39"	191	Oct. 1, 1936 to Jan. 31, 1942
03553500	Nottely River at Nottely Dam near Ivylog	34°57'55"	84°05'25"	215	July 1, 1942 to Sept. 30, 1975
03558000	Toccoa River near Dial	34°47'24"	84°14'24"	177	Jan. 1, 1913 to Sept. 30, 1989
03559000	Toccoa River near Blue Ridge	34°53'14"	84°17'07"	233	Oct. 1, 1898 to Mar. 31, 1903 Apr. 1, 1913 to Aug. 31, 1974
03560000	Fightingtown Creek at McCaysville	34°58'53"	84°23'12"	70.9	Nov. 1, 1942 to Sept. 30, 1971
03567129	Mill Creek near Cedar Grove	34°42'57"	85°25'59"	5.62	July 24, 1986 to Mar. 31, 1988
03568500	Chattanooga Creek near Flintstone	34°58'20"	85°19'40"	50.6	Jan. 1, 1951 to Sept. 30, 1974
03568782	Hurricane Creek near Rising Fawn	34°45'48"	85°30'12"	4.28	July 25, 1986 to May 31, 1987
03568933	Lookout Creek near New England	34°53'51"	85°27'47"	149	Aug. 30, 1979 to Sept. 30, 1989
03569000	Lookout Creek near Wildwood	34°57'22"	85°24'12"	165	Aug. 7, 1945 to Feb. 28, 1946 Apr. 1, 1946 to Aug. 15, 1946

a/Revised.

CHARLTON COUNTY

304942082213801 Local number, 27E004.

LOCATION.--Lat 30°49'43", long 82°21'38", Hydrologic Unit 03110201, end of Georgia Highway 177 east of Stephen C. Foster State Park. Owner: U.S. Geological Survey, test well OK 9.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 700 ft, cased to 498 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 116 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of recorder shelter, 4.3 ft above land-surface datum.

REMARKS.--Well drilled in May, 1978 to replace U.S. Geological Survey test well OK 8 (27E002). Water levels for period of missing record, Oct. 1-3, were estimated.

PERIOD OF RECORD.--June 14, 1978 to Jan. 26, 1979; Jan. 1, 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 62.30 ft below land-surface datum, May 9, 1984; lowest, 71.87 ft below land surface datum, June 18, 1989.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70.19	69.69	69.89	69.77	69.85	70.06	70.12	70.22	71.27	71.68	71.61	71.45
2	70.17	69.73	69.99	69.81	69.91	69.98	70.19	70.31	71.27	71.66	71.60	71.41
3	70.15	69.77	69.97	69.72	69.93	69.90	70.13	70.43	71.28	71.63	71.55	71.40
4	70.13	69.56	69.89	69.82	69.95	69.99	70.10	70.44	71.36	71.61	71.53	71.45
5	69.98	69.45	69.94	69.87	69.92	69.99	70.08	70.38	71.43	71.63	71.50	71.48
6	70.04	69.64	69.93	69.79	69.93	69.90	70.12	70.39	71.44	71.70	71.44	71.46
7	70.02	69.80	69.84	69.85	69.95	69.98	70.04	70.45	71.48	71.71	71.41	71.42
8	69.99	69.86	69.88	69.87	70.05	70.12	70.04	70.48	71.57	71.66	71.47	71.40
9	69.90	69.87	69.85	69.89	70.16	70.16	70.10	70.44	71.61	71.65	71.57	71.38
10	69.86	69.82	69.85	69.96	70.13	70.16	70.16	70.33	71.69	71.68	71.63	71.37
11	69.81	69.84	69.77	70.00	70.02	70.14	70.27	70.40	71.73	71.67	71.62	71.38
12	69.86	69.88	69.84	69.92	70.01	70.02	70.29	70.43	71.73	71.61	71.60	71.41
13	69.99	69.86	69.82	69.89	70.04	69.98	70.26	70.46	71.71	71.56	71.55	71.40
14	70.00	69.89	69.87	69.94	70.09	70.00	70.21	70.45	71.74	71.57	71.49	71.36
15	69.92	69.88	69.87	69.85	70.13	70.04	70.05	70.45	71.75	71.63	71.47	71.34
16	69.88	69.84	69.82	69.86	70.14	70.09	70.14	70.48	71.80	71.63	71.49	71.36
17	69.87	69.86	69.83	69.90	70.18	70.16	70.23	70.55	71.85	71.59	71.54	71.36
18	69.81	69.91	69.93	69.88	70.10	70.10	70.17	70.65	71.87	71.63	71.58	71.33
19	69.73	69.86	69.98	69.87	70.06	70.14	70.09	70.69	71.83	71.62	71.56	71.34
20	69.74	69.79	69.98	69.80	69.99	70.10	70.07	70.68	71.81	71.57	71.54	71.35
21	69.69	69.84	69.91	69.90	69.86	70.04	70.10	70.69	71.83	71.66	71.53	71.25
22	69.67	69.84	69.93	69.83	69.88	70.07	70.15	70.70	71.82	71.75	71.54	71.25
23	69.68	69.70	69.88	69.83	70.01	70.00	70.18	70.72	71.78	71.78	71.53	71.27
24	69.63	69.81	69.81	69.90	70.15	70.07	70.20	70.74	71.71	71.74	71.51	71.35
25	69.74	69.87	69.85	69.94	70.16	70.11	70.20	70.82	71.68	71.72	71.49	71.29
26	69.75	69.80	69.96	69.95	70.02	70.11	70.15	70.90	71.68	71.70	71.50	71.26
27	69.77	69.73	69.95	69.86	69.90	70.15	70.14	70.94	71.66	71.64	71.50	71.38
28	69.82	69.76	69.85	69.90	69.93	70.15	70.13	71.01	71.66	71.56	71.55	71.41
29	69.83	69.91	69.91	69.90	—	70.06	70.22	71.11	71.68	71.56	71.54	71.31
30	69.82	69.86	69.88	69.81	—	69.94	70.28	71.16	71.70	71.58	71.49	71.26
31	69.76	—	69.82	69.83	—	69.90	—	71.23	—	71.60	71.48	—
MEAN	69.88	69.80	69.89	69.87	70.02	70.05	70.15	70.62	71.65	71.64	71.53	71.36

WTR YR 1989 MEAN 70.54 HIGH 69.45 LOW 71.87

CHATHAM COUNTY

315950081161201 Local number, 35P094.

LOCATION.--Lat 31°59'50", long 81°16'12", Hydrologic Unit 03060204, Barbour Lathrop Plant Introduction Station, 10 mi south of Savannah, north of the intersection of U.S. Highway 17 and Argyle Rd.

Owner: University of Georgia, formerly owned by U.S. Department of Agriculture.

AQUIFER.--Sands of Holocene and Pleistocene ages.

WELL CHARACTERISTICS.--Bored observation well, diameter 30 in., depth 15 ft, cased to 15 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 18.67 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Iron bracket on recorder shelter, 3.3 ft above land-surface datum.

REMARKS.--Responds quickly to precipitation.

PERIOD OF RECORD.--August 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.05 ft below land-surface datum, Sept. 26, 1953; lowest, 12.28 ft below land-surface datum, November 30, 1972.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.62	4.04	4.82	5.58	6.93	7.69	7.70	6.81	7.98	7.05	7.84	5.65
2	2.67	4.13	4.88	5.64	6.98	7.72	7.76	6.83	8.03	6.86	7.94	5.67
3	2.28	4.21	4.92	5.64	7.01	7.70	7.79	6.87	8.09	7.02	8.02	5.20
4	1.90	4.17	4.96	5.72	7.05	7.71	7.81	6.91	8.14	7.15	8.11	4.10
5	2.21	3.61	5.03	5.77	7.08	7.70	7.81	6.92	8.20	7.24	8.16	3.85
6	2.45	3.57	5.07	5.79	7.11	7.65	7.78	6.97	8.26	7.34	8.21	3.86
7	2.61	3.64	5.11	5.83	7.14	7.64	7.74	7.09	8.30	7.44	8.27	2.96
8	2.75	3.72	5.16	5.83	7.17	7.66	7.74	7.15	8.32	7.53	8.34	2.22
9	2.86	3.81	5.21	5.84	7.21	7.64	7.76	7.19	7.89	7.62	8.24	2.41
10	2.95	3.87	5.25	5.90	7.24	7.61	7.80	7.23	8.00	7.69	7.98	2.66
11	3.05	3.94	5.27	5.95	7.25	7.57	7.57	7.30	8.04	7.78	7.74	2.87
12	3.16	4.02	5.25	5.98	7.27	7.52	7.08	7.36	8.07	7.87	7.66	3.04
13	3.27	4.08	5.18	6.03	7.31	7.50	6.74	7.42	8.10	7.96	7.61	3.19
14	3.34	4.19	5.22	6.09	7.35	7.56	6.51	7.45	8.14	8.05	7.09	3.25
15	3.42	4.27	5.26	6.09	7.06	7.62	6.32	7.47	8.16	8.12	5.71	3.04
16	3.48	4.32	5.27	6.10	7.22	7.67	6.16	7.49	8.11	8.20	5.23	3.14
17	3.56	4.38	5.19	5.74	7.36	7.71	5.99	7.54	7.49	8.27	5.13	3.27
18	3.63	4.45	5.17	6.01	7.44	7.67	5.87	7.60	6.75	8.35	5.18	3.40
19	3.71	4.49	5.17	6.20	7.48	7.65	5.82	7.63	6.44	8.41	5.28	3.52
20	3.80	4.53	5.21	6.28	7.53	7.70	5.86	7.66	6.32	8.47	5.41	3.60
21	3.69	4.61	5.24	6.39	7.53	7.72	5.89	7.71	6.31	8.53	5.55	3.21
22	3.51	4.65	5.29	6.41	7.53	7.75	5.97	7.38	6.27	8.58	5.69	.84
23	3.60	4.64	5.31	6.49	7.57	7.78	6.04	7.32	6.24	7.84	5.84	1.05
24	3.72	4.56	5.32	6.59	7.62	7.76	6.15	7.51	6.25	7.76	5.94	1.39
25	3.85	4.54	5.36	6.64	7.64	7.73	6.27	7.61	6.29	7.76	5.88	1.10
26	3.93	4.57	5.42	6.68	7.61	7.64	6.39	7.69	6.38	7.58	5.86	1.39
27	4.01	4.62	5.37	6.68	7.60	7.65	6.51	7.75	6.50	7.49	5.84	1.75
28	4.06	4.69	5.36	6.79	7.63	7.67	6.63	7.79	6.66	7.47	5.82	1.98
29	4.10	4.74	5.48	6.83	---	7.67	6.74	7.82	6.80	7.52	5.69	2.11
30	3.96	4.76	5.52	6.85	---	7.66	6.82	7.88	6.95	7.61	5.59	2.21
31	3.97	---	5.55	6.90	---	7.65	---	7.93	---	7.72	5.59	---
MEAN	3.29	4.26	5.22	6.17	7.32	7.66	6.83	7.40	7.38	7.75	6.66	2.93

WTR YR 1989 MEAN 6.07 HIGH .84 LOW 8.58

CHATHAM COUNTY

320021081124801 Local number, 36Q020.

LOCATION.--Lat 32°00'18", long 81°12'48", Hydrologic Unit 03060204, 2.7 mi south of intersection of U.S. Highway 17 with Dean Forest Road.

Owner: H. J. Morrison.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 3 in., depth 365 ft, cased to 330 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 13 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.88 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted May 7, 1985. Water levels for periods of missing record, Nov. 23 to Dec. 20, and Jan. 4-23, were estimated.

PERIOD OF RECORD. -March 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.66 ft below land-surface datum, June 28, 1958; lowest, 54.45 ft below land-surface datum, July 23, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51.81	51.13	50.34	49.58	49.07	49.27	49.11	50.35	51.99	52.28	53.63	53.29
2	51.74	51.14	50.42	49.61	49.07	49.03	49.25	50.37	52.14	52.28	53.61	53.26
3	51.67	51.15	50.44	49.47	49.03	48.87	49.21	50.46	52.31	52.27	53.56	53.25
4	51.69	50.95	50.39	49.52	49.03	48.91	49.19	50.47	52.51	52.26	53.58	53.23
5	51.79	50.80	50.21	49.39	48.97	48.82	49.17	50.38	52.73	52.28	53.65	53.24
6	51.77	51.01	50.23	49.19	48.94	48.67	49.22	50.38	52.76	52.34	53.70	53.15
7	51.70	51.14	50.24	49.38	48.93	48.68	49.19	50.48	52.70	52.39	53.80	52.98
8	51.66	51.13	50.31	49.37	49.01	48.75	49.23	50.55	52.72	52.41	53.96	52.88
9	51.59	51.08	50.26	49.47	49.09	48.71	49.40	50.48	52.67	52.50	54.01	52.83
10	51.54	50.97	50.14	49.41	49.04	48.66	49.41	50.35	52.71	52.61	54.01	52.79
11	51.49	50.98	50.15	49.41	48.94	48.61	49.43	50.37	52.73	52.70	53.94	52.78
12	51.56	51.02	50.04	49.53	48.94	48.50	49.41	50.37	52.75	52.81	53.83	52.76
13	51.73	50.96	50.09	49.49	48.99	48.49	49.37	50.42	52.77	52.93	53.77	52.74
14	51.74	51.01	50.33	49.48	49.05	48.48	49.35	50.41	52.88	53.08	53.64	52.72
15	51.65	50.99	50.44	49.49	49.07	48.56	49.16	50.32	52.99	53.26	53.48	52.71
16	51.60	50.91	50.25	49.63	49.06	48.67	49.25	50.35	53.01	53.36	53.41	52.74
17	51.58	50.92	50.26	49.57	49.09	48.73	49.36	50.47	53.02	53.34	53.40	52.78
18	51.50	50.98	50.46	49.58	48.95	48.64	49.28	50.63	52.95	53.39	53.41	52.76
19	51.44	50.87	50.25	49.64	48.90	48.68	49.22	50.72	52.82	53.34	53.38	52.76
20	51.47	50.78	50.26	49.55	48.83	48.67	49.25	50.77	52.75	53.30	53.41	52.75
21	51.37	50.89	50.51	49.70	48.67	48.58	49.24	50.91	52.73	53.37	53.41	52.59
22	51.33	50.87	50.50	49.55	48.66	48.63	49.34	51.03	52.67	53.47	53.41	52.54
23	51.32	50.18	50.37	49.28	48.75	48.55	49.44	50.98	52.60	53.45	53.42	52.58
24	51.25	50.07	50.17	49.40	49.09	48.64	49.59	50.93	52.47	53.35	53.43	52.59
25	51.36	50.20	50.11	49.44	49.28	48.71	49.66	50.95	52.43	53.32	53.40	52.43
26	51.36	50.10	50.13	49.41	49.22	48.76	49.74	51.04	52.35	53.30	53.37	52.35
27	51.37	50.11	50.01	49.28	49.17	48.84	49.85	51.15	52.29	53.25	53.39	52.38
28	51.38	50.53	49.82	49.31	49.22	48.89	50.00	51.32	52.31	53.23	53.44	52.34
29	51.40	50.32	49.83	49.30	---	48.90	50.22	51.51	52.35	53.33	53.37	52.22
30	51.36	50.26	49.74	49.18	---	48.86	50.37	51.67	52.33	53.48	53.31	52.14
31	51.28	---	49.64	49.13	---	48.85	---	51.85	---	53.57	53.32	---
MEAN	51.53	50.78	50.20	49.44	49.00	48.73	49.43	50.72	52.61	52.98	53.56	52.75
WTR YR 1989	MEAN	50.99		HIGH	48.48		LOW	54.01				

CHATHAM COUNTY

320122080510204 Local number, 39Q003.
LOCATION.--Lat 32°01'22", long 80°51'02", Hydrologic Unit 03060204, Tybee Island near Fort Screven.
Owner: U.S. Geological Survey, test well 7.
AQUIFER.--Upper Floridan aquifer.
WELL CHARACTERISTICS.--Drilled observation well, diameter 10 in., depth 600 ft, cased to 129 ft, open hole.
INSTRUMENTATION.--Water-level recorder.
DATUM.--Elevation of land-surface is 7.0 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of 10 in. casing, 2.0 ft above land-surface datum.
REMARKS.--Borehole geophysical survey conducted Jan. 24, 1962.
PERIOD OF RECORD.--May 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.8 ft below land-surface datum, Apr. 11, 1963; lowest, 34.33 ft below land-surface datum, Aug. 3, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.47	31.03	31.33	30.72	30.43	30.22	30.67	30.74	32.28	32.55	34.12	33.12
2	31.46	31.25	31.41	30.71	30.56	29.89	30.59	30.88	32.45	32.80	33.90	33.29
3	31.29	31.17	31.37	30.65	30.53	29.86	30.68	30.82	32.51	33.08	33.68	33.29
4	31.33	30.91	31.29	30.88	30.46	30.08	30.75	30.92	32.68	33.05	33.75	33.02
5	31.25	30.96	30.99	30.57	30.10	30.11	30.59	31.08	32.85	33.06	33.98	33.05
6	31.14	31.39	31.08	30.61	30.11	30.01	30.83	31.13	32.65	33.35	34.00	32.81
7	31.01	31.56	31.11	30.78	30.25	30.00	30.89	31.19	32.76	33.52	33.92	32.65
8	31.06	31.42	31.18	30.71	30.41	29.77	30.62	31.12	32.85	33.62	33.69	32.53
9	31.08	31.37	31.18	30.76	30.45	29.74	30.67	31.10	32.92	33.49	33.49	32.61
10	31.12	31.24	31.02	30.61	30.48	29.66	30.45	31.11	33.15	33.56	33.68	32.66
11	31.21	31.29	31.03	30.70	30.52	29.77	30.39	31.03	33.15	33.60	33.73	32.64
12	31.36	30.99	30.82	30.70	30.58	29.93	30.24	31.16	32.91	33.54	33.72	32.61
13	31.33	31.18	30.91	30.88	30.49	29.83	30.33	31.22	33.06	33.51	33.73	32.75
14	31.44	31.31	31.08	30.53	30.60	29.96	30.39	31.09	33.34	33.67	33.54	32.97
15	31.50	31.27	31.19	30.68	30.63	30.34	30.24	31.15	33.29	33.47	33.45	33.14
16	31.47	31.12	30.89	30.84	30.56	30.58	30.33	31.30	33.05	33.55	33.51	33.28
17	31.41	31.39	30.99	30.57	30.12	30.34	30.58	31.32	33.12	33.68	33.62	33.31
18	31.31	31.18	31.14	30.58	29.94	30.39	30.56	31.35	33.06	33.59	33.67	33.10
19	31.26	31.00	31.20	30.64	30.00	30.34	30.43	31.54	32.94	33.41	33.71	32.94
20	30.90	31.16	31.23	30.64	29.96	30.24	30.20	31.72	32.91	33.49	33.72	33.06
21	30.89	31.40	31.36	30.43	30.07	30.25	30.19	31.72	32.97	33.70	33.74	32.70
22	31.06	31.09	31.34	30.18	30.15	30.07	30.49	31.91	32.99	33.97	33.70	32.90
23	30.96	30.94	31.07	30.03	30.56	29.67	30.82	31.93	32.92	33.92	33.80	32.75
24	31.06	30.89	31.24	30.22	30.90	30.17	30.72	31.82	32.96	33.87	33.78	32.35
25	31.16	31.13	31.38	30.49	30.56	30.36	30.79	31.81	32.93	33.85	33.48	32.12
26	31.24	31.13	31.30	30.59	30.44	30.30	30.84	32.07	32.80	33.74	33.17	32.32
27	31.22	31.16	31.05	30.50	30.32	30.56	30.75	32.19	32.95	33.74	33.27	32.09
28	31.37	31.55	30.95	30.31	30.36	30.77	30.81	31.78	32.92	33.98	33.31	32.04
29	31.32	31.35	30.99	30.43	---	30.62	30.94	31.74	32.81	34.01	33.26	32.72
30	31.04	31.15	30.80	30.43	---	30.42	30.93	32.09	32.48	33.96	33.21	32.25
31	30.86	---	30.77	30.47	---	30.54	---	32.21	---	34.08	33.21	---
MEAN	31.21	31.20	31.12	30.58	30.38	30.15	30.59	31.43	32.89	33.56	33.63	32.77

WTR YR 1989 MEAN 31.63 HIGH 29.66 LOW 34.12

CHATHAM COUNTY

320202080541201 Local number, 38Q002.
LOCATION.--Lat 32°02'02", long 80°54'12", Hydrologic Unit 03060204, Cockspur Island, near pilot house.
Owner: U.S. Department of the Interior, National Park Service.
AQUIFER.--Upper Floridan aquifer.
WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in., depth 348 ft, cased to 110 ft, open hole.
INSTRUMENTATION.--Water-level recorder.
DATUM.--Elevation of land-surface is 8.0 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Floor of recorder shelter, 3.62 ft above land-surface datum.
REMARKS.--Borehole geophysical survey conducted June 16, 1961.
PERIOD OF RECORD.--February 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.0 ft below land-surface datum, Mar. 5, 1956; lowest, 38.48 ft below land-surface datum, Aug. 4, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.97	35.36	35.58	35.06	34.70	34.53	34.64	35.00	36.54	36.84	38.37	37.62
2	35.93	35.57	35.67	35.01	34.80	34.29	34.59	35.16	36.64	36.94	38.24	37.66
3	35.79	35.53	35.63	34.90	34.76	34.21	34.55	35.09	36.69	37.09	38.09	37.65
4	35.84	35.28	35.52	35.15	34.67	34.33	34.63	35.00	36.84	37.17	38.11	37.52
5	35.82	35.30	35.34	34.90	34.41	34.29	34.57	34.98	37.05	37.25	38.23	37.62
6	35.76	35.67	35.39	34.87	34.42	34.17	34.76	35.12	37.10	37.45	38.21	37.47
7	35.64	35.73	35.35	34.96	34.51	34.18	34.80	35.28	37.09	37.58	38.21	37.29
8	35.65	35.66	35.36	34.89	34.67	34.06	34.69	35.25	37.16	37.60	38.22	37.19
9	35.62	35.59	35.32	34.91	34.73	34.02	34.79	35.32	37.26	37.57	38.16	37.23
10	35.61	35.46	35.19	34.83	34.74	33.96	34.71	35.38	37.32	37.61	38.26	37.18
11	35.66	35.49	35.18	34.89	34.70	34.02	34.68	35.32	37.23	37.69	38.28	37.19
12	35.76	35.27	35.06	34.87	34.74	34.12	34.59	35.32	37.11	37.68	38.21	37.13
13	35.77	35.44	35.14	35.06	34.73	34.10	34.60	35.38	37.22	37.77	38.18	37.01
14	35.84	35.54	35.30	34.85	34.84	34.19	34.59	35.34	37.32	37.83	38.05	36.99
15	35.84	35.52	35.40	34.93	34.87	34.37	34.42	35.33	37.37	37.73	38.00	37.05
16	35.76	35.43	35.22	35.14	34.81	34.44	34.48	35.48	37.34	37.85	37.99	37.13
17	35.75	35.55	35.24	34.89	34.52	34.37	34.63	35.47	37.40	37.92	38.01	37.16
18	35.72	35.39	35.31	34.89	34.36	34.37	34.56	35.57	37.34	37.92	38.04	37.03
19	35.68	35.26	35.41	34.93	34.36	34.29	34.54	35.60	37.24	37.88	38.02	37.01
20	35.46	35.31	35.37	34.87	34.31	34.21	34.41	35.63	37.20	37.88	38.01	37.07
21	35.45	35.52	35.28	34.73	34.31	34.35	34.25	35.77	37.28	37.94	38.00	36.80
22	35.52	35.31	35.24	34.56	34.42	34.20	34.39	35.88	37.28	38.08	38.07	36.96
23	35.43	35.19	35.08	34.44	34.70	33.91	34.65	36.04	37.21	38.18	38.12	36.90
24	35.72	35.24	35.11	34.59	34.84	34.29	34.71	36.08	37.15	38.22	38.11	36.57
25	35.42	35.39	35.19	34.78	34.67	34.40	34.80	36.08	37.09	38.18	37.96	36.33
26	35.49	35.36	35.18	34.84	34.62	34.42	34.83	36.10	37.03	38.03	37.75	36.47
27	35.42	35.35	35.13	34.79	34.55	34.55	34.77	36.18	37.05	38.04	37.75	36.23
28	35.56	35.73	35.22	34.68	34.60	34.61	34.77	35.98	37.05	38.07	37.80	36.23
29	35.57	35.61	35.33	34.73	—	34.57	34.88	36.03	37.04	38.06	37.77	36.28
30	35.40	35.49	35.19	34.74	—	34.50	35.02	36.27	36.82	38.04	37.72	36.29
31	35.30	—	34.98	34.75	—	34.53	—	36.41	—	38.28	37.70	—
MEAN	35.65	35.45	35.29	34.85	34.62	34.29	34.64	35.58	37.12	37.75	38.05	37.01

WTR YR 1989 MEAN 35.87 HIGH 33.91 LOW 38.37

CHATHAM COUNTY

320530081085001 Local number, 36Q008.

LOCATION.--Lat 32°05'30", long 81°08'50", Hydrologic Unit 03060204, 0.19 mi southeast of intersection of Alfred Street and U.S. Highway 80.
Owner: Layne-Atlantic Co.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused industrial well, diameter 4 in., depth 406 ft, cased to 250 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 9.91 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of 3 in. casing, 1.0 ft above land-surface datum.

REMARKS.--None.

PERIOD OF RECORD.--February 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.17 ft below land-surface datum, July 11, 1954; lowest, 124.40 ft below land-surface datum, August 30, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113.83	113.51	113.74	109.45	106.56	104.95	107.40	109.76	114.88	114.22	118.40	116.97
2	113.26	113.40	114.38	108.92	106.99	105.36	106.80	109.95	114.82	113.31	118.44	116.70
3	113.29	114.39	113.50	109.54	108.05	104.68	107.88	110.37	114.14	113.06	118.20	115.33
4	113.75	114.64	112.22	110.85	108.05	103.84	109.32	110.68	113.54	113.44	118.52	114.38
5	113.90	113.95	112.10	112.24	107.04	102.97	109.48	111.33	114.46	113.59	118.46	115.03
6	113.69	113.39	113.20	112.60	106.79	102.65	110.50	110.06	115.25	115.06	118.33	115.73
7	113.98	113.42	114.13	111.52	107.40	102.84	110.28	109.11	114.82	116.38	118.70	115.50
8	113.37	114.00	114.88	110.68	107.29	103.01	108.88	109.84	114.11	117.01	118.86	115.52
9	113.04	114.41	115.10	110.78	107.47	103.05	107.40	111.36	114.34	116.62	119.04	115.82
10	113.30	114.52	114.61	112.10	107.67	103.10	107.94	110.74	113.26	117.21	118.94	115.92
11	114.05	114.25	113.93	112.36	107.48	102.53	109.04	110.26	113.46	118.13	118.64	116.28
12	114.07	112.91	112.86	112.00	107.39	101.90	109.47	110.42	114.41	118.54	118.44	116.75
13	113.57	112.60	113.30	112.82	108.26	101.64	108.81	110.08	115.41	117.98	117.90	117.08
14	113.36	111.82	114.39	112.30	108.55	102.56	108.51	108.86	116.28	117.68	117.66	116.81
15	112.79	112.23	114.18	110.76	108.55	104.03	107.60	108.74	116.22	117.64	117.92	117.28
16	112.11	112.33	114.74	110.96	109.02	104.73	107.36	109.92	115.66	117.66	117.73	116.64
17	112.92	112.47	114.70	110.86	108.99	105.34	108.06	110.29	114.28	117.64	117.90	115.40
18	114.41	113.12	114.60	110.46	107.97	105.33	108.54	111.18	112.74	118.36	118.02	116.34
19	115.01	112.36	114.08	109.74	106.91	105.04	109.12	111.60	112.78	118.31	117.85	117.11
20	115.05	111.72	113.12	109.24	106.35	105.40	109.54	112.04	114.38	118.20	117.54	117.29
21	115.07	112.54	112.18	108.91	105.82	106.16	108.98	111.92	114.79	118.30	117.41	115.98
22	114.50	113.62	111.79	107.51	105.83	106.50	108.49	111.40	114.46	118.40	117.80	114.20
23	113.71	113.37	111.04	107.27	105.51	107.45	108.41	112.72	114.73	117.86	118.22	114.74
24	113.75	112.31	109.94	107.92	106.51	106.80	109.34	113.39	114.66	117.55	118.38	114.82
25	113.84	112.14	109.26	107.55	106.39	105.84	111.06	112.28	113.92	117.83	118.32	114.54
26	114.60	111.33	108.78	107.57	105.48	105.43	111.43	113.00	113.98	117.91	117.92	114.89
27	114.47	110.96	108.85	107.29	105.01	105.78	111.16	112.62	115.38	118.01	117.41	115.56
28	114.62	112.22	110.34	106.90	105.46	106.39	110.92	112.11	115.46	118.30	117.34	115.50
29	114.44	113.36	110.02	106.47	—	107.78	110.64	112.06	115.56	118.37	117.48	115.64
30	113.73	113.06	109.60	106.67	—	108.76	109.90	112.29	114.63	117.66	117.54	116.26
31	113.41	—	109.71	106.46	—	108.22	—	113.42	—	117.76	117.38	—
MEAN	113.84	113.01	112.56	109.70	107.10	104.84	109.08	111.09	114.56	117.03	118.09	115.87

WTR YR 1989 MEAN 112.26 HIGH 101.64 LOW 119.04

COOK COUNTY

310813083260301 Local number, 18H016.

LOCATION.--Lat 31°08'13", long 83°26'03", Hydrologic Unit 03110203, on West Second Street near intersection of Georgia Highways 76 and 37.

Owner: U.S. Geological Survey, Adel test well.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in., depth 865 ft, cased to 207 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 241 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 2.66 ft above land-surface datum.

REMARKS.--Well pumped July 19, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted Oct. 24, 1974.

PERIOD OF RECORD.--December 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 163.34 ft below land-surface datum, July 5, 1966; lowest, 175.75 ft (revised) below land-surface datum, July 22 and 29, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174.56	174.22	174.25	173.80	173.84	173.75	173.79	173.86	175.51	174.63	174.45	174.66
2	174.39	174.28	174.40	173.83	173.90	173.73	173.75	173.95	175.55	174.53	174.52	174.46
3	174.28	174.32	174.34	173.80	173.93	173.61	173.73	174.05	175.39	174.50	174.40	174.45
4	174.37	174.01	174.20	173.94	173.94	173.71	173.72	174.02	175.41	174.37	174.41	174.48
5	174.50	173.74	174.30	173.98	173.83	173.57	173.74	173.95	175.50	174.46	174.31	174.60
6	174.57	173.92	174.31	173.86	173.88	173.54	173.81	173.91	175.36	174.55	174.21	174.70
7	174.57	174.17	174.21	173.89	173.89	173.61	173.67	173.94	175.19	174.62	174.26	174.58
8	174.45	174.31	174.25	173.91	174.05	173.78	173.63	174.05	175.15	174.48	174.36	174.59
9	174.37	174.32	174.23	174.00	174.20	173.86	173.66	173.97	175.09	174.44	174.51	174.61
10	174.32	174.28	174.19	174.18	174.16	173.85	173.79	173.86	175.10	174.68	174.54	174.54
11	174.29	174.31	174.05	174.21	173.95	173.76	173.89	173.85	175.08	174.71	174.49	174.64
12	174.35	174.34	174.12	174.06	173.85	173.57	173.90	173.87	175.05	174.66	174.41	174.73
13	174.56	174.23	174.25	174.03	173.89	173.57	173.89	173.89	175.05	174.52	174.31	174.85
14	174.58	174.30	174.22	174.10	173.99	173.61	173.84	173.86	175.05	174.46	174.31	174.71
15	174.50	174.31	174.22	173.83	174.10	173.69	173.60	173.92	175.02	174.47	174.31	174.71
16	174.43	174.25	174.10	173.93	174.15	173.81	173.58	174.10	175.01	174.35	174.40	174.77
17	174.50	174.28	174.12	174.00	174.21	173.87	173.74	174.23	174.96	174.40	174.40	174.65
18	174.46	174.35	174.22	173.96	174.09	173.91	173.72	174.44	174.83	174.44	174.52	174.70
19	174.33	174.20	174.28	173.94	173.91	173.72	173.67	174.49	174.83	174.42	174.45	174.82
20	174.37	174.10	174.28	173.85	173.81	173.78	173.65	174.52	174.80	174.40	174.40	174.81
21	174.29	174.20	174.20	173.90	173.64	173.76	173.64	174.46	174.87	174.47	174.51	174.70
22	174.16	174.16	174.21	173.78	173.68	173.72	173.65	174.47	174.89	174.46	174.60	174.59
23	174.06	174.10	174.09	173.84	173.82	173.73	173.66	174.59	174.88	174.46	174.60	174.65
24	174.13	173.98	173.91	173.91	174.07	173.69	173.80	174.51	174.65	174.60	174.58	174.75
25	174.33	174.04	173.95	173.97	174.05	173.70	173.89	174.56	174.56	174.60	174.60	174.75
26	174.30	173.92	174.09	174.01	173.69	173.65	173.93	174.74	174.60	174.55	174.57	174.63
27	174.35	173.83	174.15	173.97	173.57	173.77	173.96	174.80	174.62	174.56	174.46	174.85
28	174.41	174.07	174.04	173.85	173.58	173.81	173.96	174.81	174.63	174.40	174.64	174.85
29	174.43	174.29	174.15	173.82	---	173.73	174.01	174.95	174.72	174.33	174.60	174.84
30	174.27	174.22	174.08	173.81	---	173.65	173.87	175.24	174.71	174.29	174.62	174.64
31	174.26	---	173.89	173.84	---	173.53	---	175.38	---	174.44	174.61	---
MEAN	174.38	174.17	174.17	173.93	173.92	173.71	173.77	174.30	175.00	174.49	174.46	174.68

WTR YR 1989 MEAN 174.25 HIGH 173.53 LOW 175.55

DECATUR COUNTY

305736084355801 Local number, 09F520.

LOCATION.--Lat 30°57'42", long 84°35'46", Hydrologic Unit 03130008, U.S. 27 north of Bainbridge, right on dirt road near John Deere tractor dealership.
Owner: Graham Bolton.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Unused private irrigation well, diameter 12 in., depth 251 ft, cased to 130 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 128 ft above National Geodetic Vertical Datum of 1929 (from topographic map).
Measuring point: Floor of recorder shelter, 3.50 ft above land-surface datum.

REMARKS.--This well is about 15 ft from pumped well.

PERIOD OF RECORD.--June 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.86 ft below land-surface datum, Apr. 15, 1984; lowest, 54.78 ft below land-surface datum, Aug. 20, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47.97	48.09	48.58	49.03	49.24	49.36	48.83	48.24	48.89	45.39	44.37	45.67
2	47.96	48.11	48.60	49.04	49.25	49.33	48.80	48.27	48.93	45.32	44.46	45.68
3	47.94	48.12	48.59	49.05	49.26	49.33	48.79	48.28	48.90	45.26	44.48	45.71
4	47.93	48.12	48.59	49.08	49.27	49.31	48.80	48.26	48.89	45.20	48.57	45.78
5	47.89	48.16	48.61	49.07	49.27	49.27	48.81	48.27	48.91	45.16	48.26	47.75
6	47.85	48.20	48.62	49.05	49.28	49.26	48.82	48.29	48.91	45.09	44.70	49.39
7	47.81	48.23	48.63	49.06	49.31	49.23	48.80	48.33	48.90	44.97	47.53	45.94
8	47.77	49.40	48.66	49.06	49.33	49.21	48.77	52.63	48.87	44.84	47.40	45.94
9	47.74	51.05	48.68	49.08	49.33	49.16	48.78	53.99	48.66	44.75	44.87	45.96
10	47.72	48.29	48.68	49.10	49.33	49.13	48.76	48.44	48.17	44.68	44.87	45.97
11	47.73	48.30	48.69	49.10	49.32	49.09	48.75	48.69	47.80	44.63	44.96	47.93
12	47.75	48.30	48.73	49.08	49.34	49.07	48.68	48.47	47.46	44.61	44.89	49.56
13	47.77	48.31	48.73	49.08	49.35	49.07	43.59	48.55	47.16	44.58	44.94	46.15
14	47.76	48.33	48.75	49.06	49.38	49.08	48.49	48.58	46.95	44.53	45.01	46.16
15	47.76	48.34	48.76	49.04	49.39	49.09	48.38	50.52	46.78	44.49	45.04	46.20
16	47.76	48.35	48.77	49.07	49.41	49.12	48.27	51.92	46.67	44.44	45.06	46.23
17	47.77	48.38	48.80	49.08	49.43	49.12	48.16	48.72	46.56	44.42	45.09	46.25
18	47.78	48.39	48.81	49.08	49.44	49.11	48.06	48.75	46.43	44.43	45.14	46.27
19	47.79	48.39	48.83	49.09	49.45	49.12	48.00	48.79	46.31	44.40	47.31	48.47
20	47.82	48.41	48.84	49.11	49.46	49.12	47.98	48.82	46.21	44.35	45.28	49.30
21	47.83	48.44	48.86	49.13	49.47	49.13	47.96	48.80	46.13	44.34	45.24	46.30
22	47.84	48.45	48.88	49.13	49.51	49.14	47.95	48.76	46.04	44.31	45.25	46.33
23	47.86	48.47	48.88	49.15	49.51	49.14	47.96	48.75	45.94	44.28	45.26	46.36
24	47.88	48.49	48.90	49.17	49.50	49.14	47.99	48.73	45.86	44.25	45.54	46.41
25	47.93	48.50	48.93	49.19	49.45	49.10	48.02	48.70	45.78	44.22	45.34	46.42
26	47.95	48.50	48.94	49.19	49.39	49.05	48.06	48.68	45.71	44.20	48.82	46.47
27	47.98	48.51	48.95	49.19	49.36	49.00	48.09	48.68	45.65	44.18	45.62	46.52
28	48.01	48.56	48.98	49.20	49.36	48.95	48.15	48.71	45.60	44.21	45.64	46.54
29	48.03	48.56	48.99	49.20	---	48.89	48.22	48.77	45.54	44.27	45.64	46.56
30	48.05	48.56	49.00	49.21	---	48.86	48.23	48.80	45.46	44.27	46.17	46.58
31	48.32	---	49.01	49.22	---	48.84	---	48.83	---	44.31	45.66	---
MEAN	47.87	48.48	48.78	49.11	49.37	49.12	48.40	49.07	47.14	44.59	45.69	46.69

WTR YR 1989 MEAN 47.85 HIGH 44.18 LOW 53.99

DOUGHERTY COUNTY

313532084203501 Local number, 11L002.

LOCATION.--Lat 31°35'32", long 84°20'35", Hydrologic Unit 03130008, Tallassee Plantation, 10.4 mi west of Albany.
Owner: Georgia Department of Natural Resources.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled observation well, diameter 3 in., depth 656 ft, cased to 542 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 222 ft above National Geodetic Datum of 1929 (from topographic map).
Measuring point: Floor of recorder shelter, 3.02 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted June 3, 1975. Well pumped and redeveloped, Aug. 14, 1989.

PERIOD OF RECORD.--September 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 58.90 ft below land-surface datum, Apr. 29, 1975; lowest, 152.61 ft below land-surface datum, Aug. 23, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134.35	124.33	117.42	112.02	107.21	104.03	102.39	100.98	105.96	109.28	105.55	118.12
2	134.01	123.96	117.32	111.90	107.23	103.67	102.46	101.01	106.66	109.49	105.58	117.99
3	133.66	123.66	117.13	111.56	107.17	103.32	102.41	101.06	107.37	109.57	105.61	117.81
4	133.39	123.29	116.93	111.55	107.07	103.15	102.40	101.09	108.25	109.45	105.69	117.65
5	133.16	122.95	116.75	111.38	106.82	103.01	102.41	101.01	108.99	109.34	105.97	117.43
6	132.86	122.96	116.31	111.12	106.57	102.94	102.42	100.99	109.70	109.13	106.21	117.13
7	132.47	122.94	115.87	111.09	106.36	102.94	102.22	100.95	110.45	108.82	106.44	116.86
8	131.96	122.83	115.64	111.03	106.23	102.94	102.11	100.94	110.94	108.45	107.01	116.67
9	131.38	122.62	115.36	111.01	106.16	102.94	102.24	100.94	111.03	108.17	107.79	116.54
10	130.89	122.29	115.18	110.95	106.03	102.94	102.25	100.94	111.04	108.03	108.55	116.58
11	130.42	122.13	114.94	110.84	105.93	102.94	102.25	100.94	110.85	107.88	109.24	116.83
12	130.19	121.96	114.96	110.52	105.88	102.94	102.17	100.94	110.67	107.70	109.85	117.22
13	130.08	121.64	114.85	110.28	105.76	102.92	102.04	100.94	110.51	107.47	110.41	117.74
14	129.84	121.43	114.81	110.16	105.68	102.89	101.92	100.94	110.52	107.34	110.85	118.13
15	129.47	121.10	114.76	109.77	105.68	102.84	101.60	100.94	110.70	107.25	111.34	118.44
16	129.11	120.74	114.62	109.55	105.68	102.74	101.52	100.94	110.97	107.05	111.97	118.70
17	128.80	120.49	114.37	109.33	105.67	102.70	101.40	100.94	111.21	106.90	112.58	118.86
18	128.43	120.29	114.12	109.06	105.52	102.67	101.25	101.05	111.24	106.80	112.94	118.87
19	128.09	119.95	113.85	108.91	105.32	102.64	101.13	101.21	111.04	106.68	113.11	118.82
20	127.86	119.53	113.71	108.77	105.14	102.63	101.09	101.54	110.82	106.49	113.34	118.88
21	127.39	119.44	113.58	108.67	104.91	102.62	101.10	102.10	110.65	106.47	113.66	118.96
22	127.03	119.28	113.53	108.43	105.00	102.67	101.08	102.59	110.42	106.52	114.07	118.92
23	126.77	118.91	113.39	108.18	105.11	102.64	101.10	102.89	110.17	106.47	114.63	118.89
24	126.43	118.62	113.24	107.98	105.11	102.63	101.05	103.00	109.78	106.38	115.37	118.90
25	126.27	118.41	113.28	107.84	104.94	102.60	101.01	103.09	109.35	106.26	116.29	118.65
26	126.01	117.98	113.31	107.71	104.61	102.51	100.99	103.14	108.96	106.12	117.08	118.44
27	125.72	117.64	113.07	107.57	104.27	102.46	100.97	103.28	108.69	105.93	118.01	118.35
28	125.46	117.87	112.85	107.56	104.09	102.37	100.90	103.52	108.64	105.74	118.06	118.14
29	125.23	118.04	112.69	107.51	---	102.20	101.02	103.98	108.74	105.65	118.09	117.78
30	125.01	117.68	112.45	107.27	—	102.02	101.10	104.53	108.98	105.59	118.18	117.38
31	124.76	—	112.22	107.23	---	102.04	—	105.21	---	105.53	118.21	—
MEAN	129.24	120.83	114.60	109.57	105.76	102.79	101.67	101.86	109.78	107.35	111.67	117.99

WTR YR 1989 MEAN 111.12 HIGH 100.90 LOW 134.35

DOUGHERTY COUNTY

313554084062501 Local number, 13L002.

LOCATION.--Lat 31°35'54", long 84°06'25", Hydrologic Unit 03130008, Malone and Gardner Avenue near main entrance to Turner Field, Albany.

Owner: City of Albany, Turner City.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 12 in. and 8 in., depth 760 ft, cased to 713 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 212.84 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.2 ft above land-surface datum.

REMARKS.--Well pumped and sounded to a depth of 760 ft, June 21, 1978: water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted Mar. 17, 1977. Water levels for periods of missing record, Oct. 26-27, Jan. 31 to Feb. 20, Mar. 13-21, 28-30, May 3-5, 22, and May 30 to June 1, were estimated.

PERIOD OF RECORD.--December 1957 to December 1959, January 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.19 ft below land-surface datum, Apr. 1, 1959; lowest, 160.88 ft below land-surface datum, July 26, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147.74	139.24	129.94	130.76	126.82	125.03	126.40	131.27	128.79	134.20	135.35	135.47
2	147.39	141.10	129.68	128.55	127.01	125.38	124.78	131.25	131.00	134.24	135.40	135.87
3	147.30	141.56	129.35	126.31	128.94	124.24	123.47	131.28	132.84	132.87	135.47	135.63
4	147.49	140.45	130.33	125.68	127.24	123.89	124.82	131.31	132.75	130.01	135.52	135.19
5	147.85	141.07	132.05	127.79	125.63	123.25	125.65	131.35	132.77	130.25	135.55	134.72
6	148.04	141.55	130.76	127.31	126.54	122.60	126.18	131.39	133.29	130.48	135.58	134.39
7	148.03	141.71	130.79	125.81	125.53	123.05	125.77	131.49	133.79	130.05	135.68	134.06
8	147.96	141.94	132.03	125.31	125.89	123.61	126.25	131.13	133.82	130.08	135.87	134.01
9	147.78	142.01	133.40	125.56	124.59	124.73	126.65	131.04	133.81	128.92	135.95	134.69
10	147.31	141.78	133.17	125.40	124.57	126.38	125.35	131.13	134.03	131.40	136.01	134.34
11	146.85	141.38	133.42	125.57	124.64	126.66	123.60	131.50	133.94	133.01	136.05	135.39
12	145.29	139.30	134.35	126.62	124.42	126.95	125.55	131.59	131.91	132.86	136.10	136.00
13	146.41	139.95	134.59	125.02	128.56	125.75	124.35	131.50	130.62	130.90	136.17	136.69
14	146.61	138.95	133.80	124.34	130.77	125.54	122.69	131.11	131.74	132.07	136.17	137.32
15	146.57	135.75	134.25	123.77	127.52	127.91	124.74	130.63	132.94	131.59	136.17	137.53
16	146.23	136.73	134.59	124.34	124.63	127.86	125.80	130.58	131.43	129.65	136.23	137.45
17	145.89	134.96	133.85	125.84	126.93	126.03	124.60	130.98	130.52	128.94	136.34	135.98
18	145.66	135.22	134.16	124.41	126.10	125.23	124.16	131.21	132.27	129.49	136.40	135.50
19	145.30	137.11	133.14	124.67	125.29	125.47	125.45	131.34	131.57	132.89	136.44	136.59
20	145.41	137.78	132.51	124.38	125.22	129.38	125.87	129.54	130.49	135.60	136.49	137.67
21	143.98	137.78	133.45	124.39	125.16	130.07	126.93	127.87	132.43	135.64	136.54	136.68
22	142.73	136.24	133.39	124.16	126.54	125.62	131.29	127.18	132.84	135.68	136.66	137.71
23	143.13	134.49	133.62	123.05	127.55	123.33	129.66	127.89	131.25	135.53	136.76	137.81
24	142.30	134.18	133.77	123.23	127.03	122.80	129.82	129.04	129.23	135.38	135.13	137.53
25	142.21	133.05	133.51	123.28	124.62	122.74	132.16	128.65	129.18	135.26	133.93	136.06
26	141.99	131.67	133.23	123.53	123.77	122.31	130.51	128.25	131.53	135.18	134.28	136.31
27	141.77	130.49	131.90	126.19	125.11	122.83	129.15	128.41	130.70	135.11	134.35	136.24
28	141.54	132.54	128.39	125.61	125.70	123.40	129.62	128.08	130.60	135.07	134.02	135.44
29	141.00	133.75	128.19	124.83	—	123.98	130.59	127.96	132.56	135.18	134.27	135.57
30	140.09	131.28	130.09	123.20	—	124.54	131.21	127.81	134.01	135.26	134.66	135.68
31	139.88	—	130.86	125.01	—	125.12	—	128.03	—	135.29	134.84	—
MEAN	145.09	137.50	132.28	125.29	126.15	125.02	126.77	130.06	131.96	132.84	135.63	135.98

WTR YR 1989 MEAN 132.08 HIGH 122.31 LOW 148.04

DOUGHERTY COUNTY

313748084002901 Local number, 13L003.

LOCATION.--Lat 31°33'13", long 84°00'21", Hydrologic Unit 03130008, near northeast corner of Marine Corps Supply Center, Acree, Ga. Owner: City of Albany and Dougherty County.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 6 in., depth 259 ft, cased to 206 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 225 ft above National Geodetic Vertical Datum of 1929. Measuring point: Floor of recorder shelter, 4.10 ft above land-surface datum.

REMARKS.--Well pumped and sounded June 21, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted Mar. 17, 1977.

PERIOD OF RECORD.--January 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.41 ft below land-surface datum, Apr. 2, 1965: lowest, 44.89 ft below land-surface datum, Dec. 13, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.04	39.95	40.85	41.70	42.37	42.12	40.58	39.36	40.37	37.48	35.35	37.24
2	38.97	40.01	40.93	41.73	42.46	41.96	40.56	39.43	40.34	37.36	35.40	37.21
3	38.94	40.05	40.93	41.63	42.47	41.66	40.51	39.42	40.39	37.24	35.47	37.20
4	39.02	39.97	40.96	41.70	42.49	41.48	40.55	39.35	40.46	37.13	35.52	37.16
5	39.04	40.01	41.04	41.65	42.51	41.24	40.58	39.30	40.55	37.04	35.55	37.18
6	39.03	40.14	41.04	41.67	42.52	41.04	40.55	39.38	40.40	36.87	35.58	37.14
7	39.04	40.21	41.05	41.83	42.51	41.01	40.46	39.40	40.38	36.54	35.68	37.15
8	39.02	40.18	41.13	41.89	42.55	41.00	40.43	39.42	40.35	36.34	35.87	37.18
9	39.03	40.15	41.15	41.96	42.52	40.90	40.49	39.44	40.18	36.25	35.95	37.22
10	39.08	40.16	41.18	41.93	42.49	40.88	40.39	39.43	40.04	36.10	36.01	37.28
11	39.11	40.23	41.14	41.92	42.47	40.83	39.96	39.41	39.89	36.04	36.05	37.38
12	39.23	40.25	41.20	41.88	42.54	40.73	39.54	39.40	39.82	36.03	36.10	37.46
13	39.32	40.26	41.13	41.95	42.62	40.72	39.34	39.38	39.83	36.10	36.17	37.55
14	39.34	40.31	41.16	41.99	42.69	40.74	39.05	39.34	39.81	36.11	36.17	37.60
15	39.34	40.34	41.22	41.96	42.71	40.81	38.75	39.35	39.78	36.14	36.17	37.65
16	39.39	40.37	41.27	42.04	42.73	40.83	38.76	39.55	39.76	36.03	36.23	37.71
17	39.44	40.44	41.34	42.04	42.76	40.87	38.76	39.72	39.62	35.89	36.34	37.79
18	39.43	40.47	41.41	42.01	42.71	40.87	38.77	39.78	39.40	35.83	36.40	37.82
19	39.45	40.45	41.42	42.05	42.71	40.90	38.75	39.71	39.17	35.69	36.44	37.93
20	39.56	40.49	41.43	42.07	42.70	40.86	38.83	39.65	38.70	35.60	36.49	38.01
21	39.58	40.59	41.43	42.17	42.66	40.81	38.90	39.60	38.52	35.64	36.54	38.01
22	39.59	40.58	41.49	42.12	42.51	40.87	39.00	39.56	38.24	35.68	36.66	38.06
23	39.61	40.54	41.49	42.14	42.38	40.77	39.08	39.55	37.97	35.53	36.76	38.14
24	39.65	40.59	41.50	42.15	42.30	40.75	39.15	39.58	37.79	35.38	36.82	38.23
25	39.74	40.59	41.57	42.17	42.16	40.66	39.19	39.64	37.73	35.26	36.97	38.17
26	39.76	40.57	41.63	42.20	42.05	40.56	39.21	39.73	37.69	35.18	37.02	38.21
27	39.81	40.63	41.61	42.24	41.99	40.51	39.30	39.88	37.64	35.11	37.04	38.29
28	39.85	40.82	41.59	42.32	42.06	40.43	39.39	39.90	37.66	35.07	37.09	38.33
29	39.87	40.83	41.66	42.31	—	40.32	39.47	39.98	37.70	35.18	37.16	38.31
30	39.90	40.79	41.66	42.30	—	40.32	39.43	40.15	37.64	35.26	37.24	38.29
31	39.93	—	41.68	42.37	—	40.40	—	40.33	—	35.29	37.25	—
MEAN	39.39	40.37	41.30	42.00	42.49	40.90	39.59	39.58	39.26	36.01	36.31	37.70

WTR YR 1989 MEAN 39.55 HIGH 35.07 LOW 42.76

FULTON COUNTY

334207084254801 Local number, 10DD02.

LOCATION.--Lat 33°42'07", long 84°25'48", Hydrologic Unit 03130002, 0.25 mi south of main entrance, 260 ft west of Roosevelt Highway.
Owner: U.S. Army, Ft. McPherson.

AQUIFER.--Biotite gneiss.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 12 in., depth 338 ft, cased to 41 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 1,013 ft above National Geodetic Vertical Datum of 1929 (from topographic map).
Measuring point: At land-surface datum.

REMARKS.--Well pumped and sounded February 14, 1976, to a depth of 338 ft. Borehole geophysical survey conducted November 19, 1974.

PERIOD OF RECORD.--November 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.10 ft below land-surface datum, March 30, 1980; lowest, 10.95 ft below land-surface datum, Sept. 2, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.48	9.89	10.02	10.19	9.80	9.40	8.65	7.61	8.35	7.85	7.92	8.60
2	10.34	9.91	10.12	10.21	9.86	9.33	8.66	7.52	8.36	7.85	7.95	8.61
3	10.22	9.98	10.09	10.04	9.90	9.22	8.60	7.55	8.39	7.77	7.95	8.68
4	10.25	9.90	10.02	10.06	9.94	9.23	8.54	7.57	8.41	7.71	7.95	8.74
5	10.34	9.79	10.05	10.05	9.90	9.17	8.24	7.51	8.44	7.72	7.97	8.78
6	10.37	9.91	10.02	9.96	9.86	9.06	7.95	7.57	8.34	7.75	7.96	8.76
7	9.61	9.99	9.99	10.03	9.85	9.04	7.91	7.64	8.30	7.79	7.98	8.72
8	9.39	10.08	10.03	10.07	9.86	9.13	7.94	7.65	8.30	7.77	8.06	8.72
9	9.30	10.09	10.04	10.12	9.93	9.12	7.94	7.50	8.33	7.77	8.15	8.72
10	9.29	10.02	10.04	10.14	9.85	9.11	7.90	7.41	8.43	7.83	8.20	8.75
11	9.25	10.10	10.02	10.14	9.77	9.07	7.90	7.43	8.49	7.87	8.21	8.77
12	9.27	10.14	10.08	10.06	9.78	9.01	7.88	7.44	8.49	7.84	8.24	8.85
13	9.38	10.10	10.03	9.95	9.81	9.02	7.88	7.49	8.47	7.81	8.26	8.88
14	9.48	10.11	10.07	9.87	9.85	9.03	7.89	7.54	8.53	7.82	8.27	8.86
15	9.48	10.10	10.08	9.79	9.88	9.08	7.81	7.51	8.51	7.90	8.21	8.87
16	9.45	10.05	10.09	9.82	9.91	9.17	7.86	7.54	8.42	7.86	8.21	8.90
17	9.45	10.09	10.09	9.84	9.92	9.20	7.94	7.60	8.34	7.80	8.26	8.96
18	9.49	10.14	10.15	9.81	9.86	9.16	7.90	7.66	8.36	7.83	8.30	9.00
19	9.50	10.09	10.17	9.80	9.78	9.16	7.64	7.68	8.22	7.78	8.32	9.04
20	9.50	10.03	10.20	9.80	9.72	9.15	7.47	7.68	8.00	7.71	8.33	9.05
21	9.58	10.12	10.18	9.87	9.53	9.04	7.45	7.70	7.67	7.71	8.37	9.04
22	9.53	10.12	10.19	9.85	9.37	9.01	7.46	7.71	7.47	7.79	8.39	8.92
23	9.57	10.10	10.16	9.80	9.45	8.85	7.46	7.73	7.45	7.79	8.42	8.96
24	9.60	10.10	10.10	9.81	9.55	8.56	7.41	7.78	7.47	7.78	8.43	9.08
25	9.76	10.14	10.21	9.86	9.53	8.49	7.54	7.94	7.55	7.78	8.45	8.98
26	9.77	10.09	10.27	9.93	9.44	8.50	7.49	8.00	7.62	7.79	8.51	8.69
27	9.83	10.02	10.21	9.92	9.35	8.56	7.52	8.03	7.67	7.74	8.52	8.77
28	9.89	10.00	10.25	9.89	9.39	8.56	7.55	8.05	7.74	7.71	8.55	8.82
29	9.92	10.09	10.23	9.86	---	8.52	7.61	8.10	7.80	7.77	8.58	8.65
30	9.94	10.01	10.21	9.79	---	8.46	7.67	8.15	7.86	7.78	8.57	8.35
31	9.95	---	10.14	9.79	---	8.49	---	8.27	---	7.89	8.58	---
MEAN	9.72	10.04	10.11	9.94	9.74	8.96	7.86	7.70	8.13	7.79	8.26	8.82

WTR YR 1989 MEAN 8.92 HIGH 7.41 LOW 10.48

GLYNN COUNTY

311007081301702 Local number, 33H133.

LOCATION.--Lat 31°10'07", long 81°30'17", Hydrologic Unit 03070203, near the intersection of Newcastle and Oak Streets to the south of the cemetery in Brunswick.

Owner: U.S. Geological Survey, test well 6.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 790 ft, cased to 520 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 7 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 5.1 ft above land-surface datum.

REMARKS.--Well pumped semi-annually; water-quality samples collected at conclusion of pumping. Borehole geophysical survey conducted
Sept. 26, 1977.

PERIOD OF RECORD.--January 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.07 ft above land-surface datum, Dec. 26, 1965; lowest, 21.87 ft below land-surface datum, July 22, 1977.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.44	16.18	13.60	15.66	13.37	16.34	15.59	15.56	16.64	18.78	18.43	16.09
2	13.67	15.55	13.38	15.42	12.89	14.30	15.64	16.06	16.65	18.93	16.67	15.78
3	13.77	14.42	13.43	15.32	13.78	14.27	15.50	16.27	17.12	18.64	17.48	15.68
4	13.51	15.34	13.34	14.80	14.11	14.44	14.99	15.73	17.07	18.01	17.51	15.50
5	13.72	15.49	13.58	14.11	14.53	14.23	14.51	15.14	17.18	18.19	17.91	15.11
6	13.83	16.65	13.61	14.58	13.72	13.80	14.61	15.23	16.47	17.80	17.89	14.84
7	14.09	16.74	13.76	14.85	14.17	14.23	14.80	14.82	17.25	18.73	18.00	14.27
8	13.97	16.95	13.41	15.03	14.73	13.88	14.11	12.12	16.69	19.10	18.06	13.55
9	14.12	16.38	13.58	15.28	14.04	13.40	14.06	6.28	17.35	18.87	16.90	13.99
10	13.99	15.76	14.28	15.21	13.55	14.25	13.52	3.25	17.70	19.08	16.89	14.08
11	14.02	16.37	15.14	14.80	14.08	14.80	14.29	1.87	17.53	19.35	16.89	14.54
12	14.02	16.25	15.06	14.08	15.72	15.62	14.63	4.08	17.66	19.06	16.89	14.67
13	14.13	16.36	15.22	15.10	16.04	15.92	14.43	9.48	17.75	18.49	17.16	13.94
14	14.35	16.61	15.22	15.17	16.14	15.95	14.22	12.84	17.29	18.28	16.95	13.96
15	14.05	16.57	14.91	15.36	16.55	15.85	13.76	14.83	17.61	18.44	16.51	14.90
16	13.81	15.66	15.56	15.47	16.69	15.71	14.10	15.18	17.80	17.93	16.08	14.50
17	11.52	14.78	15.50	15.40	16.70	15.35	12.99	14.29	17.95	17.43	16.72	14.53
18	10.01	15.16	15.02	15.71	16.52	14.64	13.31	15.18	18.40	18.30	16.05	14.13
19	8.84	15.76	14.77	15.51	16.30	15.59	13.55	16.26	18.51	18.61	16.79	14.63
20	9.79	15.02	15.47	15.06	15.94	15.17	14.85	15.75	18.45	17.98	16.75	14.86
21	11.88	14.84	15.70	14.59	15.00	14.46	15.31	16.38	18.01	18.15	17.06	14.81
22	13.49	14.22	16.24	13.90	13.78	15.28	15.17	17.42	17.57	17.34	17.02	14.27
23	13.48	14.30	16.36	13.50	14.99	13.76	15.09	17.29	17.44	17.13	16.91	14.38
24	13.91	14.21	16.27	13.48	16.04	14.83	15.76	17.59	17.82	16.92	15.70	14.65
25	15.83	15.05	15.69	12.29	16.36	14.68	16.23	17.38	18.14	17.14	16.71	13.87
26	15.89	14.96	15.88	12.82	16.40	14.53	16.38	15.66	17.68	17.14	15.93	13.07
27	14.74	15.22	16.77	12.24	16.14	14.51	15.27	16.93	16.67	16.66	16.04	13.58
28	15.20	15.06	16.76	13.22	15.89	15.00	15.76	16.23	18.30	17.95	16.09	13.84
29	15.42	16.08	15.93	13.23	—	14.61	15.75	16.80	17.92	16.88	15.92	13.31
30	15.89	15.64	16.09	13.12	—	15.25	16.22	16.40	18.83	17.31	15.17	14.03
31	16.24	—	15.97	13.87	—	15.86	—	17.23	—	17.44	15.56	—
MEAN	13.73	15.59	15.02	14.46	15.15	14.86	14.81	14.05	17.58	18.07	16.79	14.45

WTR YR 1989 MEAN 15.38 HIGH 1.87 LOW 19.35

LAURENS COUNTY

322652083033001 Local number, 21T001.

LOCATION.--Lat 32°27'06", long 83°03'28", Hydrologic Unit 03070102, approximately 1.8 mi northeast of Dexter, Ga.
Owner: Danny Hogan.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unusued domestic well, diameter 4 in., depth 123 ft, cased to 89 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 252 ft above National Geodetic Vertical Datum of 1929 (from barometric levels).
Measuring point: Floor of recorder shelter, 2.57 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted Nov. 1973.

PERIOD OF RECORD.--March 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.62 ft below land-surface datum, Jan. 26, 1987; lowest, 39.58 ft below land-surface datum, Nov. 12, 1968.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.99	37.53	37.82	38.04	37.99	36.96	31.75	28.92	30.09	30.02	27.11	30.61
2	36.99	37.53	37.84	38.04	38.02	36.87	31.83	28.97	30.24	29.99	27.16	30.67
3	36.99	37.54	37.85	38.04	38.04	36.41	31.84	29.12	30.39	29.92	27.27	30.76
4	36.96	37.55	37.85	38.04	38.05	35.62	31.83	29.24	30.56	29.77	27.38	30.89
5	36.94	37.50	37.86	38.04	38.06	35.39	31.86	29.30	30.71	29.59	27.55	30.98
6	36.94	37.49	37.87	38.04	38.04	34.14	31.89	29.39	30.80	29.29	27.72	31.06
7	36.94	37.55	37.87	38.04	38.03	33.81	31.90	29.55	30.86	28.95	27.88	31.12
8	36.94	37.59	37.87	38.04	38.06	33.57	31.92	29.68	30.94	28.68	28.07	31.14
9	36.94	37.60	37.87	38.04	38.12	33.34	31.90	29.76	30.90	28.47	28.30	31.19
10	36.94	37.60	37.87	38.06	38.13	33.08	31.72	29.49	30.89	28.11	28.54	31.27
11	36.94	37.60	37.87	38.06	38.12	32.90	30.90	28.98	30.89	27.75	28.70	31.36
12	36.95	37.63	37.89	38.06	38.12	32.67	30.04	28.58	30.89	27.45	28.84	31.48
13	37.04	37.64	37.91	38.06	38.14	32.52	29.42	28.30	30.91	27.27	28.98	31.59
14	37.08	37.64	37.91	38.06	38.20	32.41	28.98	28.13	30.97	27.16	29.08	31.68
15	37.09	37.64	37.92	38.06	38.23	32.37	28.60	28.03	31.04	27.12	29.12	31.77
16	37.09	37.64	37.93	38.06	38.24	32.36	28.39	28.00	31.09	27.12	29.16	31.88
17	37.10	37.65	37.93	38.06	38.26	32.37	28.24	28.02	31.10	27.11	29.27	32.00
18	37.12	37.70	37.97	38.06	38.24	32.37	28.10	28.08	31.11	27.16	29.40	32.09
19	37.12	37.71	37.99	38.04	38.20	32.36	28.02	28.16	31.09	27.23	29.50	32.21
20	37.18	37.71	38.00	38.03	38.16	32.38	27.93	28.24	30.83	27.08	29.63	32.33
21	37.21	37.71	38.00	38.04	38.01	32.35	27.92	28.29	30.53	26.98	29.73	32.38
22	37.21	37.73	38.00	38.04	37.82	32.38	27.92	28.40	30.32	26.93	29.84	32.41
23	37.25	37.74	38.00	38.04	37.66	32.38	27.95	28.52	30.18	26.84	29.95	32.54
24	37.27	37.73	38.00	38.04	37.55	32.33	28.01	28.65	30.05	26.75	30.05	32.68
25	37.34	37.73	38.00	38.05	37.47	32.24	28.08	28.81	30.01	26.68	30.18	32.73
26	37.38	37.73	38.02	38.04	37.22	32.14	28.16	28.99	30.01	26.65	30.25	32.73
27	37.43	37.73	38.04	38.00	37.05	32.06	28.29	29.18	30.04	26.65	30.30	32.79
28	37.47	37.74	38.04	38.01	36.97	31.97	28.44	29.37	30.13	26.65	30.34	32.86
29	37.50	37.81	38.04	38.02	---	31.87	28.62	29.58	30.12	26.71	30.38	32.87
30	37.52	37.82	38.04	38.00	---	31.74	28.82	29.75	30.06	26.84	30.45	32.87
31	37.53	---	38.04	37.99	---	31.68	---	29.93	---	26.99	30.51	---
MEAN	37.14	37.65	37.94	38.04	37.94	33.13	29.64	28.88	30.59	27.74	29.05	31.83

WTR YR 1989 MEAN 33.27 HIGH 26.65 LOW 38.26

LIBERTY COUNTY

314343081251901 Local number, 34M054.

LOCATION.--Lat 31°43'43", long 81°25'19", Hydrologic Unit 03060204, Riceboro, Ga., near entrance to Interstate Paper Co.
Owner: U.S. Geological Survey, test well 2.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 802 ft, cased to 467 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 19 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Floor of recorder shelter, 3.4 ft above land-surface datum.

REMARKS.--Well pumped July 11, 1979; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 15, 1976. Water levels for period of missing record, June 15-25, were estimated.

PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.85 ft below land-surface datum, Feb. 5, 1967; lowest, 27.59 ft below land-surface datum, Sept. 16-17, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.39	26.35	25.92	25.72	25.72	25.92	25.57	24.93	26.01	26.58	27.31	27.39
2	27.30	26.33	26.00	25.71	25.77	25.78	25.43	23.92	25.99	26.58	27.28	27.39
3	27.18	26.28	25.98	25.26	25.76	25.64	25.32	23.84	25.97	26.58	27.02	27.38
4	27.21	26.22	25.90	25.30	25.75	25.68	25.35	23.69	26.01	26.60	27.32	27.33
5	27.34	25.97	25.87	25.52	25.91	25.67	25.25	23.36	25.97	26.68	27.21	27.36
6	27.42	26.14	25.69	25.71	25.93	25.59	25.40	23.16	25.74	26.76	27.16	27.27
7	27.37	26.35	25.82	25.86	25.82	25.53	25.46	23.94	25.85	26.81	27.22	27.18
8	27.30	26.23	25.73	25.74	25.87	25.69	25.43	24.71	25.78	26.75	27.24	27.22
9	27.20	26.07	25.63	25.76	25.97	25.75	25.51	24.73	25.82	26.76	27.24	27.30
10	27.15	26.07	25.60	25.75	25.89	25.80	25.68	24.62	25.92	26.64	27.31	27.23
11	27.07	26.03	25.49	25.80	25.76	25.83	25.70	24.62	25.98	26.79	27.27	27.24
12	27.19	26.10	25.51	25.76	25.70	25.61	25.77	24.78	26.08	26.83	27.23	27.33
13	27.34	25.99	25.48	25.77	25.77	25.59	25.76	25.06	26.13	26.85	27.17	27.30
14	27.38	26.01	25.68	25.84	25.90	25.64	25.77	25.15	26.18	26.89	27.20	27.17
15	27.37	25.98	25.84	25.57	25.98	25.72	25.56	25.04	26.23	26.97	27.00	27.26
16	27.26	26.00	25.87	25.69	25.81	25.90	25.72	25.07	26.29	26.99	27.02	27.26
17	27.14	25.99	25.82	25.74	25.76	25.91	25.83	25.08	26.33	26.99	26.98	27.18
18	26.87	26.04	25.90	25.69	25.65	25.82	25.76	25.08	26.34	27.07	27.02	27.20
19	26.70	25.98	25.92	25.67	25.55	25.84	25.66	25.09	26.30	27.10	27.07	27.11
20	26.69	25.82	25.99	25.66	25.46	25.85	25.66	25.08	26.29	27.03	27.11	27.18
21	26.54	25.87	25.92	25.77	25.24	25.81	25.67	25.29	26.33	27.12	27.15	26.98
22	26.48	25.91	25.95	25.69	25.27	25.55	25.69	25.31	26.35	27.23	27.20	26.84
23	26.48	25.73	25.94	25.68	25.35	25.45	25.71	25.43	26.34	27.25	27.28	26.98
24	26.41	25.80	25.78	25.68	25.55	25.52	25.77	25.39	26.29	27.24	27.26	27.04
25	26.53	25.87	25.81	25.79	25.95	25.63	25.77	25.49	26.28	27.23	27.25	26.93
26	26.61	25.83	25.91	25.77	26.15	25.70	25.71	25.59	26.28	27.16	27.27	26.93
27	26.65	25.73	25.95	25.57	25.99	25.66	25.44	25.64	26.37	27.05	27.27	27.24
28	26.73	25.77	25.86	25.83	25.91	25.71	25.50	25.83	26.47	27.10	27.35	27.44
29	26.72	26.15	26.01	25.80	---	25.71	25.39	25.95	26.52	27.11	27.41	27.36
30	26.60	25.96	25.88	25.72	---	25.72	25.46	25.98	26.58	27.15	27.31	27.35
31	26.54	---	25.75	25.75	---	25.55	---	25.97	---	27.23	27.34	---
MEAN	26.97	26.02	25.82	25.70	25.76	25.70	25.59	24.93	26.17	26.94	27.21	27.21

WTR YR 1989 MEAN 26.17 HIGH 23.16 LOW 27.44

LIBERTY COUNTY

315214081235301 Local number, 34N089.

LOCATION.--Lat 31°52'14", long 81°23'53", Hydrologic Unit 03060204, north of Midway, Ga., near intersection of Georgia Highway 196 and U.S. Highway 17.

Owner: U.S. Geological Survey, test well 1.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 789 ft, cased to 410 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 17 ft National Geodetic Vertical Datum of 1929.

Measuring point: Top of 4 in. casing, 1.33 ft above land-surface datum.

REMARKS.--Well pumped July 11, 1979; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 15, 1976. Well levels for periods of missing record, Apr. 1 to May 2, and May 12-26, were estimated.

PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.34 ft below land-surface datum, March 6, 1967; lowest, 25.82 ft below land-surface datum, Aug. 8, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.24	24.80	24.49	23.99	23.82	23.80	23.62	23.62	24.42	24.67	25.31	25.50
2	25.15	24.79	24.58	24.03	23.88	23.74	23.59	23.73	24.38	24.67	25.30	25.49
3	25.07	24.82	24.53	23.91	23.88	23.63	23.49	23.71	24.39	24.65	25.28	25.52
4	25.09	24.63	24.45	24.01	23.91	23.68	23.53	23.70	24.38	24.63	25.28	25.56
5	25.20	24.40	24.50	24.08	23.89	23.69	23.44	23.59	24.40	24.67	25.28	25.60
6	25.25	24.58	24.45	23.97	23.87	23.60	23.67	23.56	24.34	24.73	25.24	25.58
7	25.22	24.75	24.35	24.01	23.84	23.64	23.62	23.58	24.30	24.76	25.26	25.49
8	25.20	24.79	24.35	24.03	23.93	23.78	23.49	23.60	24.34	24.72	25.35	25.44
9	25.15	24.77	24.32	24.06	24.04	23.83	23.58	23.51	24.32	24.73	25.45	25.42
10	25.10	24.69	24.32	24.16	23.99	23.81	23.54	23.42	24.40	24.79	25.50	25.42
11	25.04	24.69	24.24	24.18	23.87	23.75	23.56	23.46	24.46	24.83	25.51	25.43
12	25.10	24.76	24.29	24.11	23.82	23.62	23.52	23.52	24.46	24.79	25.48	25.46
13	25.22	24.68	24.22	24.06	23.87	23.59	23.59	23.53	24.47	24.78	25.46	25.46
14	25.27	24.71	24.26	24.12	23.92	23.60	23.70	23.52	24.52	24.84	25.41	25.40
15	25.19	24.69	24.25	23.96	23.94	23.63	23.39	23.51	24.56	24.94	25.32	25.40
16	25.15	24.61	24.20	23.96	23.92	23.68	23.45	23.52	24.25.00	25.30	25.42	
17	25.14	24.63	24.17	24.00	23.96	23.84	23.63	23.58	24.65	25.00	25.36	25.44
18	25.09	24.75	24.28	23.96	23.86	23.75	23.59	23.67	24.65	25.08	25.43	25.42
19	25.02	24.71	24.33	23.93	23.79	23.72	23.50	23.69	24.61	25.10	25.44	25.44
20	25.07	24.57	24.33	23.84	23.70	23.76	23.55	23.70	24.59	25.08	25.45	25.45
21	24.97	24.62	24.25	23.96	23.55	23.64	23.47	23.71	24.62	25.16	25.44	25.16
22	24.92	24.65	24.26	23.87	23.57	23.66	23.41	23.83	24.64	25.25	25.47	25.09
23	24.96	24.44	24.21	23.80	23.64	23.50	23.51	23.90	24.62	25.28	25.46	25.22
24	24.89	24.49	24.10	23.95	23.81	23.46	23.53	23.97	24.56	25.28	25.46	25.33
25	24.97	24.56	24.13	24.08	23.89	23.52	23.65	23.97	24.55	25.25	25.46	25.25
26	24.97	24.46	24.25	24.08	23.73	23.53	23.65	23.96	24.54	25.24	25.49	25.21
27	25.00	24.36	24.23	23.94	23.63	23.59	23.68	23.86	24.54	25.20	25.51	25.34
28	25.01	24.41	24.10	23.97	23.64	23.63	23.72	23.97	24.58	25.14	25.56	25.39
29	25.01	24.59	24.18	23.96	—	23.60	23.67	24.10	24.62	25.17	25.56	25.31
30	24.98	24.48	24.15	23.83	—	23.54	23.63	24.16	24.68	25.22	25.50	25.26
31	24.91	—	24.06	23.84	—	23.44	—	24.24	—	25.27	25.51	—
MEAN	25.08	24.63	24.28	23.99	23.83	23.65	23.57	23.72	24.51	24.97	25.41	25.40

WTR YR 1989 MEAN 24.42 HIGH 23.39 LOW 25.60

LONG COUNTY

313845081361701 Local number, 33M004.

LOCATION.--Lat 31°38'54", long 81°36'04", Hydrologic Unit 03070106, 9 mi southeast of Ludowici, at Hope Cemetery.
Owner: U.S. Geological Survey, test well 3.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 3 to 4 in., depth 872 ft, cased to 538 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 61.2 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of recorder shelter, 3.5 ft above land-surface datum.

REMARKS.--Well pumped and sounded June 17, 1976, to depth of 861 ft; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted July 28, 1976.

PERIOD OF RECORD.--January 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.04 ft below land-surface datum, Jan. 14, 1968; lowest, 55.74 ft below land-surface datum, Sept. 5, 1989.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54.92	54.63	54.43	54.24	54.11	54.16	54.14	54.14	54.04	55.16	55.49	55.71
2	54.79	54.63	54.53	54.26	54.13	54.09	54.24	54.14	54.05	55.17	55.47	55.68
3	54.69	54.63	54.51	54.22	54.12	53.98	54.17	54.16	54.07	55.15	55.44	55.69
4	54.73	54.52	54.44	54.25	54.14	54.09	54.15	54.05	54.14	55.14	55.43	55.72
5	54.86	54.33	54.51	54.28	54.13	54.05	54.11	53.76	54.22	55.17	55.41	55.74
6	54.90	54.38	54.49	54.21	54.13	53.92	54.13	53.54	54.24	55.23	55.37	55.72
7	54.87	54.50	54.41	54.24	54.14	53.96	54.04	53.39	54.27	55.26	55.37	55.68
8	54.86	54.57	54.44	54.26	54.22	54.09	54.03	53.25	54.34	55.23	55.47	55.67
9	54.82	54.56	54.42	54.28	54.32	54.09	54.11	53.06	54.34	55.25	55.57	55.66
10	54.79	54.52	54.42	54.34	54.29	54.08	54.17	52.85	54.44	55.32	55.66	55.66
11	54.74	54.52	54.36	54.36	54.19	54.06	54.22	52.87	54.50	55.32	55.67	55.68
12	54.75	54.58	54.41	54.29	54.17	53.91	54.26	52.90	54.52	55.28	55.67	55.72
13	54.84	54.54	54.37	54.26	54.23	53.87	54.23	52.94	54.53	55.24	55.66	55.72
14	54.85	54.56	54.41	54.32	54.27	53.90	54.19	52.96	54.63	55.26	55.61	55.69
15	54.78	54.55	54.41	54.22	54.30	53.96	54.00	52.94	54.70	55.35	55.53	55.68
16	54.74	54.50	54.35	54.22	54.30	54.05	54.08	52.97	54.78	55.36	55.53	55.68
17	54.73	54.50	54.34	54.25	54.34	54.15	54.17	53.06	54.85	55.35	55.59	55.67
18	54.70	54.58	54.43	54.22	54.26	54.10	54.10	53.18	54.88	55.41	55.66	55.66
19	54.69	54.52	54.47	54.21	54.20	54.12	54.00	53.23	54.86	55.40	55.68	55.66
20	54.68	54.43	54.48	54.18	54.13	54.13	53.99	53.19	54.86	55.35	55.69	55.66
21	54.66	54.47	54.41	54.24	53.96	54.04	54.01	53.19	54.92	55.40	55.67	55.52
22	54.66	54.47	54.43	54.19	53.95	54.10	54.05	53.23	54.96	55.48	55.67	55.41
23	54.66	54.28	54.38	54.15	54.04	54.08	54.04	53.24	54.94	55.53	55.67	55.47
24	54.65	54.34	54.31	54.20	54.19	54.11	54.07	53.28	54.90	55.50	55.65	55.60
25	54.65	54.41	54.32	54.23	54.22	54.14	54.06	53.39	54.91	55.48	55.62	55.52
26	54.65	54.35	54.43	54.24	54.07	54.15	54.01	53.51	54.95	55.47	55.63	55.48
27	54.66	54.29	54.41	54.16	53.95	54.20	54.00	53.61	54.97	55.42	55.66	55.63
28	54.66	54.34	54.30	54.18	53.99	54.21	54.01	53.70	55.02	55.36	55.71	55.69
29	54.67	54.49	54.35	54.17	—	54.13	54.10	53.84	55.08	55.38	55.71	55.60
30	54.66	54.42	54.33	54.13	—	53.99	54.18	53.91	55.14	55.43	55.70	55.54
31	54.65	—	54.28	54.12	—	53.93	—	53.98	—	55.46	55.71	—
MEAN	54.74	54.48	54.41	54.23	54.16	54.06	54.10	53.40	54.64	55.33	55.59	55.64

WTR YR 1989 MEAN 54.57 HIGH 52.85 LOW 55.74

LOWNDES COUNTY

304949083165301 Local number, 19E009.

LOCATION.--Lat 30°49'51", long 83°16'59", Hydrologic Unit 03110202, N. Oak Street, one block north of intersection with U.S. Highway 84, Valdosta, Ga.

Owner: City of Valdosta.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused municipal well, diameter 20 in., depth 342 ft, cased to 200 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 217 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: Top of casing, 1.7 ft above land-surface datum.

REMARKS.--Well pumped July 18, 1978, water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted April 11, 1963. Water level affected by city pumping.

PERIOD OF RECORD.--February 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.69 ft below land-surface datum, March 9, 1964; lowest, 146.60 ft below land-surface datum, July 18, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133.99	135.48	137.22	137.05	137.55	133.99	131.96	132.56	140.12	132.40	130.52	132.79
2	133.24	135.93	137.70	136.74	137.19	133.43	132.15	132.87	141.19	132.12	130.76	132.54
3	132.72	136.36	138.22	136.98	137.07	133.66	131.65	132.60	141.07	131.46	130.85	132.30
4	132.19	136.13	137.87	137.00	137.11	133.81	131.78	132.53	141.30	131.15	131.29	132.95
5	132.48	136.48	137.82	136.81	136.62	133.26	131.89	133.37	142.07	130.83	131.85	132.13
6	132.22	135.34	138.20	136.86	136.44	132.72	131.91	133.24	140.33	131.16	131.34	131.78
7	132.44	135.35	138.31	137.37	136.55	132.66	132.27	133.38	140.69	131.82	132.32	131.79
8	132.32	136.28	138.42	137.30	136.59	132.52	132.67	133.57	139.78	132.06	131.76	132.64
9	132.32	136.52	138.84	134.87	136.20	132.45	132.54	132.98	138.72	131.85	130.53	133.42
10	132.87	137.00	139.37	137.78	136.14	132.99	131.23	132.62	137.29	132.22	130.65	132.55
11	132.49	137.15	139.11	137.17	136.28	133.18	131.74	132.31	136.63	133.04	130.93	132.39
12	132.97	137.34	137.81	136.51	136.25	132.59	131.73	132.87	135.71	133.27	131.00	132.72
13	132.73	136.89	137.37	137.71	136.15	132.32	132.11	133.09	134.98	132.06	131.08	132.97
14	133.38	137.14	137.06	137.06	136.68	132.53	132.30	132.81	134.87	131.64	131.01	133.37
15	133.20	137.62	137.15	136.35	136.98	132.64	132.03	132.60	134.73	131.86	130.69	134.20
16	133.41	137.87	137.03	136.13	137.17	132.78	131.61	133.17	134.44	131.72	130.86	134.34
17	133.25	138.05	137.27	136.30	137.93	133.13	131.44	133.97	134.10	131.67	131.35	134.34
18	133.12	138.29	137.33	136.27	137.71	134.00	131.57	133.93	133.31	131.68	132.17	134.26
19	133.16	137.62	136.69	136.65	137.80	133.49	131.81	134.07	132.81	131.50	132.61	134.70
20	133.41	137.05	136.77	137.08	137.13	133.12	131.45	134.57	133.46	131.24	131.66	135.69
21	133.64	137.20	136.59	137.24	137.42	133.10	131.91	133.38	133.43	131.44	132.27	135.93
22	133.57	137.90	136.65	136.90	135.95	132.22	132.26	132.94	133.55	131.54	132.50	136.36
23	133.12	137.64	136.81	136.77	135.03	132.16	132.23	133.06	133.15	130.48	133.01	136.73
24	133.07	137.38	137.03	137.02	135.45	132.26	132.26	133.63	132.96	130.39	133.45	136.83
25	133.74	137.83	136.83	136.96	135.31	132.51	132.37	134.23	132.44	130.95	134.92	136.35
26	134.35	137.84	136.42	137.45	134.43	131.87	132.90	135.48	131.40	130.71	135.22	136.55
27	134.87	137.13	136.59	137.70	133.87	131.72	133.43	136.89	131.11	130.42	133.07	136.28
28	135.52	136.68	136.77	137.78	133.93	131.89	134.04	137.41	131.41	131.01	132.49	136.15
29	135.56	136.88	136.86	137.41	—	132.08	134.28	137.64	132.57	131.04	132.95	136.81
30	135.67	136.92	137.30	137.13	—	131.73	133.12	138.72	132.63	130.33	132.35	137.42
31	135.43	—	137.68	137.66	—	131.90	—	139.42	—	130.34	132.73	—
MEAN	133.43	136.98	137.45	136.97	136.39	132.73	132.22	134.06	135.74	131.46	131.94	134.31

WTR YR 1989 MEAN 134.46 HIGH 130.33 LOW 142.07

MCINTOSH COUNTY

313823081154201 Local number, 35M013.

LOCATION--Lat 31°38'23", long 84°15'42", Hydrologic Unit 03060204, 8.5 mi east of U.S. Highway 17 at Harris Neck Wildlife Refuge.
Owner: U.S. Department of the Interior, Fish and Wildlife Service.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 10 in., depth 553 ft, cased to 376 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 16.3 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Floor of recorder shelter, 3.20 ft above land-surface datum.

REMARKS.--Well pumped August 3, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 16, 1976.

PERIOD OF RECORD.--September 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.35 ft below land-surface datum, October 4, 1966; lowest, 23.49 ft below land-surface datum, Aug. 24, 1989.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.71	22.47	22.52	22.13	22.10	22.03	22.01	21.95	22.31	22.41	23.34	23.27
2	22.69	22.59	22.61	22.14	22.17	21.83	21.98	22.06	22.38	22.47	23.29	23.29
3	22.60	22.58	22.58	22.04	22.14	21.73	21.87	22.04	22.48	22.66	23.24	23.33
4	22.67	22.33	22.51	22.21	22.12	21.86	21.91	21.96	22.31	22.61	23.25	23.27
5	22.71	22.24	22.40	22.12	21.95	21.80	21.82	21.87	22.46	22.64	23.20	23.39
6	22.71	22.51	22.40	22.05	21.94	21.68	22.05	21.95	22.64	22.79	23.14	23.32
7	22.63	22.66	22.34	22.16	22.00	21.74	22.00	21.91	22.60	22.87	23.20	23.20
8	22.62	22.66	22.37	22.15	22.16	21.74	21.87	21.99	22.61	22.85	23.25	23.16
9	22.59	22.63	22.36	22.19	22.25	21.73	21.95	22.00	22.73	22.83	23.15	23.19
10	22.35	22.53	22.28	22.18	22.25	21.69	21.91	22.10	22.61	22.85	23.31	23.18
11	22.61	22.55	22.22	22.21	22.18	21.74	21.93	21.99	22.54	22.96	23.38	23.20
12	22.73	22.47	22.16	22.16	22.22	21.75	21.89	22.01	22.43	22.95	23.26	23.21
13	22.82	22.49	22.19	22.26	22.24	21.75	21.96	21.95	22.44	23.00	23.23	23.14
14	22.88	22.58	22.33	22.17	22.32	21.81	22.06	21.86	22.50	22.95	23.22	23.13
15	22.85	22.55	22.37	22.15	22.35	21.94	21.75	21.90	22.52	22.89	23.19	23.18
16	22.82	22.46	22.25	22.24	22.32	22.01	21.81	21.95	22.53	22.90	23.22	23.24
17	22.81	22.52	22.24	22.18	22.16	21.98	21.99	22.02	22.58	22.90	23.18	23.28
18	22.74	22.50	22.37	22.15	22.02	21.93	21.95	22.09	22.57	23.05	23.20	23.21
19	22.67	22.35	22.43	22.18	22.01	21.89	21.86	22.09	22.49	23.15	23.20	23.22
20	22.50	22.32	22.41	22.10	21.94	21.82	21.90	21.92	22.56	23.02	23.21	23.30
21	22.45	22.47	22.33	22.05	21.88	21.90	21.82	21.92	22.66	22.98	23.20	22.95
22	22.51	22.32	22.32	21.89	21.93	21.91	21.76	22.06	22.61	23.08	23.26	23.25
23	22.46	22.16	22.20	21.87	22.12	21.69	21.86	22.14	22.56	23.12	23.34	23.27
24	22.45	22.25	22.18	22.02	22.26	21.87	21.88	22.23	22.50	23.19	23.49	23.16
25	22.56	22.38	22.26	22.17	22.16	21.95	21.99	22.24	22.49	23.21	23.33	22.98
26	22.58	22.33	22.32	22.21	22.02	21.96	21.99	22.24	22.61	23.18	23.22	23.14
27	22.58	22.31	22.28	22.14	21.95	22.04	22.02	22.16	22.68	23.08	23.23	23.12
28	22.66	22.54	22.27	22.14	21.99	22.05	22.06	22.01	22.62	23.06	23.29	23.11
29	22.71	22.57	22.35	22.14	—	21.96	22.01	21.96	22.56	23.06	23.29	23.17
30	22.60	22.46	22.25	22.08	—	21.86	21.97	22.14	22.45	23.07	23.27	23.21
31	22.47	—	22.17	22.11	—	21.83	—	22.16	—	23.23	23.30	—
MEAN	22.64	22.46	22.33	22.13	22.11	21.85	21.93	22.03	22.53	22.94	23.25	23.20

WTR YR 1989 MEAN 22.45 HIGH 21.68 LOW 23.49

MILLER COUNTY

310651084404501 Local number, 08G001.
LOCATION.--Lat 31°06'51", long 84°40'45", Hydrologic Unit 03130010, 1 mi northeast of Boykin, Ga.
Owner: Viercocken.
AQUIFER.--Upper Floridan aquifer.
WELL CHARACTERISTICS.--Drilled unused irrigation well, diameter 12 in., depth 255 ft, cased to 130 ft, open hole.
INSTRUMENTATION.--Water-level recorder.
DATUM.--Elevation of land-surface is 150 ft above National Geodetic Vertical Datum of 1929 (from topographic map).
Measuring point: Top front edge of recorder shelter, 3.0 ft above land-surface datum.
PERIOD OF RECORD.--February 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.18 ft below land-surface datum, April 11, 1984; lowest, 43.88 ft below land-surface datum, July 17, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38.76	40.36	40.83	41.28	40.95	41.06	32.36	37.25	40.76	23.78	18.57	29.22
2	38.73	40.34	40.85	41.27	40.97	41.00	32.71	35.99	40.90	23.60	18.92	29.39
3	38.74	40.34	40.85	41.24	40.99	40.93	32.49	35.69	40.96	22.14	19.28	29.61
4	38.81	40.31	40.85	41.21	41.01	40.76	32.76	35.56	41.10	21.03	19.71	29.91
5	38.87	40.31	40.88	41.18	41.03	40.46	33.04	35.59	41.17	20.52	20.22	30.60
6	38.93	40.35	40.91	41.13	41.05	40.06	33.17	35.81	41.09	20.27	21.14	31.15
7	38.95	40.39	40.91	41.10	41.11	39.66	33.18	36.52	40.88	19.66	21.81	31.97
8	38.95	40.41	40.92	41.07	41.16	39.28	33.33	36.48	41.08	19.15	22.29	34.23
9	38.95	40.43	40.94	41.04	41.19	38.92	33.71	36.13	37.40	19.03	22.65	34.38
10	38.97	40.44	40.96	41.02	41.20	38.60	33.94	36.03	30.08	19.18	22.90	34.98
11	38.99	40.46	40.97	41.00	41.19	38.32	34.06	36.13	28.36	19.50	23.13	34.55
12	39.06	40.49	40.99	40.97	41.21	38.11	33.98	36.42	27.95	19.91	23.57	33.01
13	39.13	40.51	41.01	40.94	41.22	37.98	33.89	37.78	27.81	20.39	23.91	32.98
14	39.17	40.54	41.03	40.92	41.25	37.89	33.75	38.27	28.09	20.75	24.13	33.59
15	39.19	40.65	41.04	40.90	41.28	37.87	33.52	38.57	28.37	20.98	24.52	34.32
16	39.22	41.20	41.05	40.89	41.31	37.89	33.56	39.17	28.70	20.95	24.76	35.94
17	39.27	41.54	41.06	40.88	41.36	37.89	33.50	39.68	27.84	20.57	25.07	35.30
18	39.56	41.57	41.08	40.86	41.42	37.87	33.31	40.05	25.92	20.13	25.39	36.30
19	40.17	41.36	41.09	40.84	41.45	37.96	33.19	40.34	24.35	19.64	25.70	36.70
20	40.63	41.15	41.10	40.83	41.46	38.20	33.18	40.53	23.60	18.36	26.14	35.34
21	40.92	41.03	41.12	40.84	41.46	38.44	33.21	40.49	23.54	17.23	26.65	34.23
22	41.05	40.95	41.14	40.83	41.46	38.25	33.32	40.56	23.41	16.66	26.88	34.00
23	40.86	40.89	41.16	40.83	41.43	37.94	33.55	40.68	23.22	16.47	27.02	34.32
24	40.52	40.86	41.16	40.84	41.39	36.98	33.62	40.52	23.31	16.48	27.21	36.51
25	40.35	40.84	41.18	40.85	41.33	35.30	33.80	40.03	23.58	16.59	27.64	36.84
26	40.43	40.81	41.20	40.86	41.25	33.59	33.92	39.20	23.92	16.79	28.51	35.17
27	40.55	40.80	41.22	40.88	41.17	32.65	34.39	38.60	24.30	17.02	28.36	34.69
28	40.67	40.82	41.24	40.90	41.10	33.07	35.97	38.72	24.75	17.27	28.50	34.46
29	40.65	40.83	41.26	40.92	—	32.19	36.67	39.55	25.19	17.58	28.67	34.20
30	40.51	40.82	41.27	40.92	—	31.57	37.50	40.11	24.51	17.86	28.82	34.08
31	40.42	—	41.28	40.94	—	31.64	—	40.50	—	18.23	29.03	—
MEAN	39.68	40.73	41.05	40.97	41.23	37.49	33.75	38.29	30.20	19.28	24.55	33.73

WTR YR 1989 MEAN 35.03 HIGH 16.47 LOW 41.57

RANDOLPH COUNTY

314602084473701 Local number, 07N001.

LOCATION.–Lat 31°46'09", long 84°47'43", Hydrologic Unit 03110204, south of intersection of College and Andrew Streets, near electric substation.

Owner: City of Cuthbert.

AQUIFER.–Clayton Limestone.

WELL CHARACTERISTICS.–Drilled unused municipal well, diameter 8 in., depth 372 ft, casing depth unknown.

INSTRUMENTATION.–Water-level recorder.

DATUM.–Elevation of land-surface is 460 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: Floor of recorder shelter, 3.30 ft above land-surface datum.

REMARKS.–Well pumped and sounded June 22, 1978, to a depth of 372 ft; water-quality sample collected at conclusion of pumping. Well near city wells.

PERIOD OF RECORD.–January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.–Highest water level, 132.0 ft below land-surface datum, December 10, 1967; lowest, 162.08 ft below land-surface datum, Aug. 4, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155.73	155.96	154.26	151.29	149.91	149.72	149.89	148.55	153.45	151.52	150.93	155.35
2	154.92	154.71	153.60	152.39	149.77	149.77	149.81	148.82	154.07	151.46	150.45	155.52
3	155.07	155.47	153.89	152.88	150.32	149.63	149.74	148.95	154.60	151.57	150.41	155.17
4	155.18	156.51	154.15	152.45	150.90	149.64	149.57	148.92	154.72	151.52	150.38	155.32
5	156.24	154.74	154.36	153.04	150.67	149.45	149.51	148.83	154.25	151.56	150.48	155.35
6	157.63	153.79	154.58	153.83	151.29	149.20	149.65	148.94	153.95	151.50	150.33	155.52
7	158.11	154.39	153.64	153.08	152.32	149.27	149.52	148.80	153.79	151.46	150.49	155.69
8	158.24	155.39	153.52	153.14	152.04	149.51	149.61	149.75	153.51	151.34	150.33	155.93
9	158.21	155.36	153.95	153.06	153.04	149.50	149.26	149.64	153.41	151.13	150.74	155.92
10	158.72	154.58	153.42	153.86	154.57	149.45	149.36	149.88	153.72	151.27	151.04	156.03
11	158.26	154.80	153.07	153.93	153.45	149.56	149.37	150.09	153.30	151.36	151.30	156.37
12	156.89	154.71	153.07	153.66	152.68	149.34	149.52	149.13	153.52	151.23	151.60	156.35
13	155.01	154.89	154.76	153.30	152.61	149.48	149.57	148.90	153.09	150.78	151.61	156.63
14	156.54	156.10	153.16	152.87	150.21	149.44	149.41	148.77	153.36	150.58	152.10	156.49
15	157.38	154.87	154.53	150.85	149.97	149.52	149.12	149.15	153.46	150.59	151.99	156.39
16	157.12	154.08	153.18	150.28	149.92	149.52	149.29	149.16	153.63	150.49	152.15	155.97
17	156.52	154.53	153.80	149.89	149.98	149.82	149.52	149.21	153.90	150.58	152.02	155.82
18	155.00	155.05	153.53	150.46	149.75	149.85	149.43	149.59	153.35	150.75	152.23	155.58
19	154.09	154.30	153.96	151.36	149.59	149.77	149.34	149.73	153.22	150.77	152.49	155.63
20	154.37	154.04	153.64	152.02	150.10	149.92	150.80	149.92	153.43	150.83	152.26	154.77
21	157.20	154.49	154.52	151.76	149.60	149.90	151.99	149.93	153.60	151.36	152.47	154.96
22	157.22	154.07	153.56	151.05	149.47	150.17	153.04	150.31	153.42	151.11	152.77	154.41
23	156.30	153.52	153.64	150.49	150.00	149.91	154.06	149.82	153.21	150.96	153.13	154.24
24	156.61	153.72	153.40	150.08	151.27	149.85	151.92	149.99	153.18	150.95	153.24	154.14
25	156.92	154.27	152.66	15[illegible].34	150.84	150.04	149.38	150.12	152.72	150.95	153.95	153.77
26	158.07	153.78	153.14	154.22	150.25	149.78	148.99	150.55	151.94	150.95	154.63	153.55
27	156.41	153.06	152.79	154.22	149.98	149.83	149.13	151.40	151.65	150.95	155.45	153.98
28	155.94	153.27	153.39	152.50	149.62	150.04	149.02	151.07	151.64	150.95	155.73	153.48
29	155.70	153.71	152.57	151.44	—	149.61	149.07	151.61	151.56	150.95	155.42	153.42
30	155.52	154.15	152.81	150.71	—	149.56	148.92	152.70	151.68	150.94	155.45	153.71
31	155.68	—	152.69	150.25	—	149.60	—	152.76	—	150.94	155.24	—
MEAN	156.48	154.54	153.59	152.09	150.86	149.67	149.89	149.84	153.28	151.07	152.35	155.18

WTR YR 1989 MEAN 152.41 HIGH 148.55 LOW 158.72

SPALDING COUNTY

331507084171801 Local number, 11AA01.

LOCATION.–Lat 33°15'07", long 84°17'18", Hydrologic Unit 03070103, University of Georgia Experiment Station, Experiment, Ga. Owner: University of Georgia.

AQUIFER.–Residuum.

WELL CHARACTERISTICS.–Dug unused water-table well, size 4 x 4 ft, depth 30 ft, open hole.

INSTRUMENTATION.–Water-level recorder.

DATUM.–Elevation of land-surface is 960 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Measuring point: Hole in floor of recorder shelter, 3.1 ft above land-surface datum.

PERIOD OF RECORD.–October 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.–Highest water level, 8.26 ft below land-surface datum, Mar. 19, 1948; lowest, 21.82 ft below land-surface datum, Nov. 18-19, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.51	18.66	19.25	19.56	19.27	19.24	18.26	16.01	16.70	16.24	16.64	18.35
2	17.48	18.71	19.24	19.57	19.31	19.18	18.22	16.07	16.72	16.24	16.68	18.39
3	17.48	18.75	19.18	19.53	19.33	19.13	18.16	16.10	16.75	16.23	16.73	18.46
4	17.52	18.74	19.15	19.56	19.36	19.12	18.15	16.08	16.80	16.21	16.77	18.52
5	17.55	18.74	19.15	19.54	19.37	19.06	18.06	16.03	16.84	16.19	16.82	18.57
6	17.54	18.84	19.12	19.48	19.37	19.00	17.97	16.10	16.84	16.17	16.86	18.61
7	17.55	18.92	19.09	19.50	19.39	18.99	17.84	16.14	16.84	16.13	16.93	18.65
8	17.55	18.95	19.11	19.49	19.43	19.00	17.74	16.15	16.84	16.08	17.02	18.69
9	17.56	18.98	19.11	19.50	19.47	18.97	17.68	16.10	16.86	16.06	17.10	18.74
10	17.57	18.98	19.11	19.50	19.45	18.94	17.51	16.12	16.94	16.07	17.16	18.79
11	17.58	19.04	19.10	19.49	19.42	18.89	17.26	16.14	16.95	16.06	17.20	18.86
12	17.67	19.07	19.15	19.44	19.44	18.83	17.02	16.12	16.94	16.03	17.25	18.92
13	17.75	19.09	19.13	19.43	19.47	18.80	16.81	16.14	16.96	16.01	17.31	18.96
14	17.76	19.13	19.16	19.44	19.51	18.79	16.62	16.15	16.99	16.04	17.36	19.00
15	17.77	19.15	19.18	19.37	19.54	18.79	16.43	16.16	17.02	16.09	17.41	19.05
16	17.80	19.16	19.20	19.38	19.56	18.81	16.37	16.19	17.05	16.08	17.47	19.10
17	17.85	19.22	19.21	19.37	19.58	18.80	16.29	16.24	17.04	16.10	17.53	19.15
18	17.87	19.27	19.27	19.34	19.56	18.77	16.18	16.28	16.99	16.14	17.59	19.18
19	17.91	19.27	19.30	19.33	19.57	18.78	16.09	16.29	16.94	16.13	17.63	19.22
20	17.97	19.26	19.33	19.31	19.57	18.76	16.08	16.30	16.92	16.13	17.69	19.27
21	17.98	19.33	19.34	19.33	19.52	18.73	16.04	16.33	16.80	16.21	17.74	19.30
22	18.03	19.36	19.37	19.32	19.52	18.76	16.01	16.34	16.65	16.28	17.79	19.33
23	18.07	19.36	19.37	19.29	19.49	18.71	15.99	16.36	16.51	16.29	17.84	19.39
24	18.11	19.39	19.37	19.30	19.46	18.65	15.99	16.40	16.40	16.31	17.89	19.46
25	18.31	19.43	19.45	19.31	19.39	18.59	15.98	16.43	16.35	16.33	17.95	19.48
26	18.42	19.43	19.50	19.31	19.29	18.53	15.97	16.48	16.31	16.35	18.02	19.45
27	18.48	19.44	19.52	19.29	19.21	18.48	15.97	16.53	16.27	16.37	18.08	19.44
28	18.54	19.43	19.49	19.31	19.21	18.42	15.97	16.57	16.25	16.40	18.15	19.41
29	18.58	19.39	19.55	19.31	---	18.34	16.01	16.60	16.25	16.45	18.19	19.36
30	18.61	19.29	19.55	19.28	---	18.26	16.04	16.63	16.26	16.51	18.24	19.30
31	18.65	---	19.55	19.29	---	18.23	---	16.66	---	16.58	18.30	---
MEAN	17.90	19.13	19.28	19.40	19.43	18.79	16.82	16.27	16.73	16.21	17.46	19.01

WTR YR 1989 MEAN 18.03 HIGH 15.97 LOW 19.58

WAYNE COUNTY

313253081433502 Local number, 32L015.

LOCATION.--Lat 31°32'52", long 81°43'36", Hydrologic Unit 03070106, approximately 11 mi southeast of Jesup near Penholoway Creek.
Owner: Georgia Geologic Survey

AQUIFER:--Upper Floridan aquifer.

WELL CHARACTERISTICS:--Drilled observation well, diameter 4 in., depth 750 ft, cased to 545 ft.

DAtUM:--Elevation of land surface is 74 ft.
Measuring point: Floor of recorder shelter, 4.0 ft above land-surface datum.

REMARKS.--Borehole geophysical survey and well sounded, Apr. 20, 1983.

PERIOD OF RECORD.--April 20, 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.12 ft below land-surface datum, Mar. 19, 1984; lowest, 61.29 ft below land-surface datum, Aug. 10, 1989.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59.79	59.51	59.83	59.61	59.40	59.65	59.63	59.50	59.88	60.81	60.90	61.21
2	59.72	59.52	59.95	59.65	59.48	59.55	59.71	58.81	59.88	60.83	60.86	61.16
3	59.67	59.57	59.97	59.54	59.50	59.40	59.64	58.11	59.90	60.80	60.84	61.14
4	59.58	59.38	59.94	59.62	59.53	59.46	59.63	57.43	59.99	60.77	60.85	61.18
5	59.59	59.22	60.02	59.65	59.52	59.38	59.57	56.75	60.09	60.81	60.90	61.20
6	59.64	59.41	60.01	59.54	59.49	58.94	59.58	56.34	60.14	60.90	60.92	61.19
7	59.68	59.60	59.92	59.59	59.51	58.93	59.51	56.40	60.17	60.89	60.94	61.17
8	59.72	59.69	59.94	59.61	59.61	59.17	59.52	56.68	60.25	60.85	61.06	61.15
9	59.70	59.69	59.90	59.64	59.74	59.26	59.62	56.80	60.22	60.89	61.19	61.13
10	59.64	59.63	59.90	59.73	59.73	59.32	59.70	56.84	60.33	60.91	61.29	61.12
11	59.47	59.64	59.84	59.77	59.65	59.35	59.77	57.05	60.38	60.84	61.28	61.15
12	59.41	59.73	59.90	59.69	59.65	59.25	59.78	57.20	60.40	60.77	61.23	61.19
13	59.46	59.69	59.82	59.63	59.74	59.25	59.72	57.45	60.37	60.78	61.19	61.19
14	59.38	59.71	59.83	59.69	59.79	59.34	59.67	57.63	60.39	60.80	61.11	61.02
15	59.21	59.69	59.82	59.55	59.79	59.47	59.46	57.71	60.42	60.89	61.05	60.96
16	59.17	59.64	59.76	59.54	59.75	59.59	59.49	57.82	60.47	60.94	61.05	60.95
17	59.22	59.67	59.74	59.58	59.78	59.71	59.52	57.95	60.57	60.95	61.10	60.95
18	59.24	59.75	59.84	59.52	59.66	59.63	59.46	58.11	60.58	61.03	61.15	60.90
19	59.22	59.72	59.87	59.48	59.63	59.65	59.37	58.20	60.55	60.99	61.19	60.89
20	59.30	59.64	59.88	59.46	59.59	59.67	59.38	58.27	60.55	60.90	61.20	60.92
21	59.24	59.73	59.83	59.60	59.42	59.60	59.36	58.36	60.60	60.94	61.18	60.82
22	59.24	59.77	59.84	59.54	59.38	59.66	59.38	58.46	60.67	61.00	61.19	60.75
23	59.31	59.61	59.79	59.49	59.48	59.61	59.36	58.59	60.65	61.01	61.21	60.82
24	59.29	59.70	59.68	59.55	59.63	59.64	59.38	58.77	60.59	60.94	61.20	60.95
25	59.46	59.80	59.68	59.57	59.66	59.65	59.39	58.94	60.61	60.91	61.19	60.86
26	59.52	59.70	59.83	59.54	59.53	59.65	59.40	59.13	60.67	60.93	61.16	60.75
27	59.59	59.61	59.85	59.40	59.45	59.69	59.45	59.28	60.70	60.90	61.19	60.87
28	59.66	59.66	59.73	59.43	59.49	59.67	59.50	59.44	60.72	60.86	61.26	60.91
29	59.65	59.84	59.80	59.45	—	59.59	59.61	59.61	60.74	60.87	61.27	60.85
30	59.64	59.78	59.76	59.35	—	59.48	59.70	59.70	60.77	60.90	61.27	60.83
31	59.61	—	59.67	59.37	—	59.39	—	59.81	—	60.92	61.27	—
MEAN	59.48	59.64	59.84	59.56	59.59	59.47	59.54	58.10	60.41	60.89	61.12	61.01

WTR YR 1989 MEAN 59.89 HIGH 56.34 LOW 61.29

WAYNE COUNTY

313701081543501 Local number, 30L003.

LOCATION.–Lat 31°37'01", long 81°54'35", Hydrologic Unit 03070106, approximately 0.5 mi west of Jesup city limits near intersection of Highway 341 and Sunset Drive.
Owner: Homer Johnson.

AQUIFER.–Upper Floridan aquifer.

WELL CHARACTERISTICS.–Drilled unused domestic well, diameter 4 in., depth 584 ft, cased to 472 ft, open hole.

INSTRUMENTATION.–Water-level recorder.

DATUM.–Elevation of land-surface is 107 ft above National Geodetic Vertical Datum of 1929 (from topographic map).
Measuring point: Floor of shelter, 2.88 ft above land-surface datum.

REMARKS.–Borehole geophysical survey conducted August 19, 1963. Water levels for period of missing record, June 3-14, were estimated.

PERIOD OF RECORD.–January 1964 to March 1967. February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.–Highest water level, 59.98 ft below land-surface datum, April 19, 1964; lowest, 85.89 ft below land-surface datum, Aug. 10, 1989.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83.97	83.81	84.26	83.91	83.94	84.30	84.24	83.80	85.48	85.76	85.28	85.81
2	84.02	83.77	84.39	83.93	84.02	84.05	84.28	82.44	85.42	85.79	85.25	85.67
3	83.93	83.83	84.49	83.82	84.06	83.80	84.24	81.14	85.40	85.66	85.20	85.60
4	83.58	83.73	84.49	83.87	84.13	83.86	84.19	80.15	85.46	85.55	85.30	85.52
5	83.44	83.52	84.57	83.98	84.06	83.52	84.07	79.40	85.52	85.52	85.50	85.57
6	83.61	83.65	84.53	83.96	83.94	82.84	84.04	79.18	85.54	85.59	85.54	85.58
7	83.88	83.91	84.42	84.00	84.02	82.98	84.02	79.76	85.53	85.49	85.66	85.58
8	83.98	84.05	84.38	83.99	84.14	83.49	84.05	80.54	85.57	85.61	85.76	85.61
9	84.02	84.04	84.34	84.06	84.30	83.76	84.15	81.02	85.51	85.68	85.85	85.59
10	83.81	83.94	84.32	84.18	84.38	83.86	84.26	81.35	85.58	85.62	85.89	85.58
11	83.43	83.95	84.26	84.17	84.32	83.93	84.36	81.68	85.60	85.47	85.73	85.71
12	83.18	84.01	84.27	84.06	84.32	83.88	84.35	81.97	85.58	85.49	85.64	85.81
13	83.06	83.99	84.14	84.00	84.38	83.96	84.26	81.99	85.52	85.52	85.51	85.81
14	83.01	83.96	84.10	84.00	84.40	84.08	84.24	82.00	85.50	85.47	85.39	85.74
15	82.86	83.93	84.09	83.90	84.39	84.26	84.10	82.29	85.69	85.60	85.33	85.56
16	83.03	83.95	84.05	83.90	84.28	84.44	83.90	82.44	85.87	85.69	85.41	85.40
17	83.26	83.95	83.98	83.92	84.26	84.42	83.89	82.64	85.84	85.72	85.47	85.38
18	83.41	84.03	84.08	83.84	84.14	84.26	83.98	82.84	85.78	85.81	85.58	85.34
19	83.48	84.11	84.14	83.88	84.22	84.30	84.01	83.00	85.67	85.64	85.65	85.32
20	83.55	84.04	84.20	83.95	84.23	84.31	83.98	83.18	85.58	85.40	85.64	85.44
21	83.43	84.15	84.16	84.09	84.00	84.18	83.86	83.33	85.66	85.35	85.65	85.31
22	83.53	84.19	84.18	84.04	83.82	84.22	83.85	83.54	85.76	85.00	85.67	85.23
23	83.66	84.02	84.13	83.90	84.00	84.18	83.82	83.89	85.72	85.33	85.76	85.37
24	83.68	84.13	83.99	83.92	84.16	84.10	83.87	84.12	85.69	85.23	85.78	85.46
25	83.83	84.20	84.01	83.91	84.27	84.12	83.96	84.29	85.63	85.35	85.68	85.37
26	83.94	84.10	84.23	83.84	84.22	84.14	84.07	84.54	85.75	85.45	85.54	85.19
27	84.05	83.98	84.28	83.72	84.14	84.20	84.20	84.78	85.76	85.49	85.66	85.24
28	84.07	84.03	84.12	83.76	84.20	84.24	84.30	84.97	85.74	85.52	85.76	85.30
29	83.96	84.21	84.12	83.86	—	84.20	84.42	85.08	85.69	85.42	85.78	85.35
30	83.97	84.15	84.04	83.82	—	84.14	84.43	85.18	85.72	85.41	85.83	85.39
31	83.94	—	83.96	83.86	—	84.03	—	85.35	—	85.36	85.81	—
MEAN	83.63	83.98	84.22	83.94	84.17	84.00	84.11	82.64	85.63	85.52	85.60	85.49

WTR YR 1989 MEAN 84.41 HIGH 79.18 LOW 85.89

WORTH COUNTY

313146083491601 Local number, 15L020.

LOCATION.--Lat 31°31'46", long 83°49'16", Hydrologic Unit 03110204, near water tank, behind VFW on U.S. Highway 82 east, Sylvester, Ga. Owner: City of Sylvester.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused municipal well, diameter 18 in., depth 450 ft, cased to 212 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 433 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Measuring point: Floor of recorder shelter, 2.90 ft above land-surface datum.

REMARKS.--Well pumped and sounded July 19, 1978. Borehole geophysical survey conducted June 5, 1975.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 191.50 ft below land-surface datum, May 17, 1973; lowest, 204.67 ft below land-surface datum, Aug. 10, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203.36	203.11	203.16	202.81	202.72	202.62	202.51	202.40	203.18	203.05	203.01	203.46
2	203.23	203.12	203.28	202.88	202.81	202.49	202.56	202.52	203.25	203.01	203.03	203.42
3	203.13	203.13	203.24	202.75	202.83	202.34	202.46	202.65	203.28	202.97	203.00	203.43
4	203.20	202.89	203.12	202.90	202.86	202.45	202.42	202.62	203.28	202.94	202.98	203.53
5	203.37	202.69	203.18	202.93	202.83	202.42	202.41	202.50	203.28	202.96	202.96	203.61
6	203.44	202.94	203.13	202.79	202.83	202.31	202.44	202.52	203.16	203.07	202.89	203.59
7	203.43	203.15	203.01	202.87	202.87	202.41	202.29	202.59	203.12	203.10	202.86	203.56
8	203.38	203.23	203.04	202.91	203.01	202.60	202.23	202.61	203.13	203.05	202.97	203.55
9	203.28	203.24	203.01	202.97	203.17	202.64	202.35	202.50	203.10	203.04	203.14	203.52
10	203.21	203.17	203.00	203.06	203.09	202.64	202.42	202.38	203.25	203.09	203.25	203.51
11	203.15	203.20	202.90	203.09	202.93	202.57	202.51	202.46	203.27	203.10	203.37	203.53
12	203.26	203.23	202.96	202.97	202.89	202.41	202.53	202.48	203.24	203.03	203.42	203.58
13	203.47	203.18	202.94	202.93	202.90	202.33	202.49	202.49	203.17	202.93	203.40	203.59
14	203.50	203.24	202.99	202.99	202.95	202.34	202.41	202.49	203.16	202.89	203.35	203.55
15	203.41	203.27	203.00	202.84	202.98	202.40	202.21	202.49	203.14	202.94	203.28	203.53
16	203.34	203.19	202.95	202.89	202.97	202.50	202.34	202.54	203.14	202.92	203.27	203.57
17	203.33	203.22	202.95	202.96	203.00	202.58	202.44	202.61	203.19	202.88	203.33	203.61
18	203.25	203.30	203.09	202.93	202.89	202.53	202.40	202.70	203.19	202.93	203.40	203.59
19	203.14	203.20	203.12	202.90	202.79	202.52	202.32	202.73	203.10	202.90	203.41	203.60
20	203.16	203.03	203.14	202.81	202.66	202.51	202.32	202.68	203.04	202.82	203.42	203.62
21	203.08	203.12	203.07	202.92	202.44	202.40	202.34	202.66	203.10	202.93	203.39	203.53
22	203.04	203.13	203.07	202.86	202.49	202.43	202.37	202.63	203.12	203.07	203.40	203.43
23	203.03	202.99	202.99	202.80	202.64	202.37	202.41	202.61	203.07	203.11	203.39	203.50
24	202.97	203.04	202.87	202.85	202.80	202.48	202.46	202.60	202.99	203.11	203.37	203.66
25	203.13	203.10	202.94	202.90	202.81	202.51	202.47	202.65	202.97	203.10	203.36	203.64
26	203.14	202.97	203.09	202.93	202.60	202.50	202.43	202.75	202.97	203.08	203.39	203.59
27	203.20	202.86	203.08	202.84	202.39	202.54	202.40	202.81	202.95	203.01	203.42	203.75
28	203.31	203.03	202.95	202.88	202.42	202.54	202.36	202.84	202.97	202.91	203.49	203.82
29	203.31	203.20	203.05	202.86	---	202.41	202.42	202.93	203.02	202.91	203.51	203.70
30	203.28	203.12	202.98	202.72	---	202.24	202.49	202.98	203.07	202.94	203.47	203.60
31	203.22	---	202.88	202.73	---	202.23	---	203.05	---	202.97	203.47	---
MEAN	203.25	203.11	203.04	202.89	202.81	202.46	202.41	202.63	203.13	202.99	203.27	203.57

WTR YR 1989 MEAN 202.96 HIGH 202.21 LOW 203.82

TIFT COUNTY

312825083315950 TIFTON-AGRICULTURAL RESEARCH SERVICE STATION NEAR TIFTON, GA.

(National Atmospheric Deposition Program network station)
(National Trends Network station)

LOCATION.--Lat 31°28'25", long 83°31'59", Tift County, Hydrologic Unit 03110204, at the Southeastern Watershed Research Laboratory, U.S. Department of Agriculture, Agricultural Research Service, 0.9 mi west-southwest of the intersection of Interstate Highway 75 and U.S. Highway 41 near Tifton, Georgia.

PERIOD OF RECORD.--October 1983 to current year (weekly composite wet precipitation).

INSTRUMENTATION.--Wet/dry precipitation collector and recording rain gage.

REMARKS.--Chemical analyses reported are for wet precipitation medium code "7". Standard NADP/NTN protocol dictates that during periods of collector malfunction involving either the sensor or drive motor, the wet/dry collector should be left in "bulk" mode, i.e., the "wet" side bucket is left uncovered for the sampling period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	TOTAL PRECIP-ITATION FOR DEFINED PERIOD (IN)	VOLUME ATM DEP WET (L)	COL-LECTOR EFFI-CIENCY WET DEPOS. PERCENT	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)
OCT								
04-11	1400	0.02	0.041	118	--	68	--	3.93
11-18	1400	<0.01	0.00	--	--	2	--	5.75
18-25	1400	0.06	0.114	110	24	51	4.62	4.26
OCT 25-NOV 01	1400	0.40	0.554	80	33	32	4.30	4.27
NOV								
01-08	1400	0.95	1.454	89	6	5	4.31	5.23
08-15	1400	<0.01	0.006	--	--	--	--	--
15-22	1400	0.11	0.186	98	11	10	4.80	5.89
22-29	1400	0.15	0.00	101	26	24	4.40	4.53
NOV 29-DEC 06	1400	<0.01	0.004	--	--	--	--	--
DEC								
06-13	1400	0.65	0.001	96	20	19	4.41	4.39
13-20	1400	0.23	0.307	77	35	25	4.19	4.38
20-27	1400	--	0.006	--	--	--	--	7.16

312825083315950 TIFTON-AGRICULTURAL RESEARCH SERVICE STATION NEAR TIFTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	TOTAL PRECIP-ITATION FOR DEFINED PERIOD (IN)	VOLUME ATM DEP WET (L)	COL-LECTOR EFFI-CIENCY WET DEPOS. PERCENT	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)
DEC 27 1988- JAN 03 1989	1400	0.53	0.936	103	9	8	4.77	5.04
JAN								
03-10	1400	--	0.020	--	--	36	--	5.39
10-17	1400	0.85	1.484	101	14	14	4.66	4.77
17-24	1400	--	0.001	--	--	--	--	--
24-31	1400	0.79	--	--	6	5	4.97	5.15
JAN 31- FEB 07	1400	0.05	0.073	84	27	16	4.31	6.60
FEB								
07-14	1400	<0.01	0.016	--	--	25	--	6.77
14-21	1400	0.98	1.581	94	9	8	4.62	4.94
FEB								
21-28	1400	1.67	2.809	98	7	7	4.72	4.98
FEB 28- MAR 07	1400	1.36	2.286	97	16	16	4.44	4.63
MAR								
07-14	1400	<0.01	0.006	--	--	31	--	6.22
14-21	1400	<0.01	0.001	--	--	--	--	--
21-28	1400	1.66	2.779	97	12	11	4.45	4.81
MAR 28- APR 04	1400	0.19	0.370	113	11	9	4.83	5.45
APR								
04-11	1400	1.86	3.295	103	16	11	4.53	4.89
11-18	1400	0.58	0.001	95	8	8	6.02	6.47
18-25	1400	<0.01	0.004	--	--	--	--	--
APR 25- MAY 02	1400	1.97	3.464	102	12	9	4.55	4.90
MAY								
02-09	1400	0.18	0.312	101	34	31	4.16	4.37
09-16	1400	1.40	2.509	104	9	9	4.17	4.92
16-23	1400	0.02	0.086	249	5	39	4.16	4.95
23-30	1400	0.02	0.039	113	--	15	--	6.06
MAY 30- JUN 06	1400	0.91	--	--	10	7	4.87	5.63
JUN								
06-13	1400	3.55	--	--	6	6	4.83	5.55
13-20	1400	1.79	3.221	104	9	10	4.94	5.29
20-27	1400	1.70	2.766	94	16	17	4.39	4.53
JUN 27- JUL 04	1400	1.79	3.189	103	9	10	4.64	4.79
JUL								
04-11	1400	0.69	1.206	101	7	7	5.23	6.07
JUL								
11-18	1400	2.97	5.257	103	12	13	4.51	4.67
18-25	1400	--	1.732	--	10	10	4.67	4.78
JUL 25- AUG 01	1400	0.03	0.00	154	25	22	4.25	4.56
AUG								
01-08	1400	--	1.534	--	20	21	4.34	4.48
08-15	1400	0.22	0.431	114	23	22	4.09	4.46
15-22	1400	0.20	0.453	131	27	21	4.22	4.68
22-29	1400	0.29	0.500	100	25	27	4.16	4.32
AUG 29- SEP 05	1400	0.85	1.511	103	17	19	4.37	4.42
SEP								
05-12	1400	0.03	0.021	40	--	25	--	6.87
12-19	1400	0.03	0.026	50	--	17	--	5.05
19-26	1400	0.49	0.648	77	19	19	4.83	6.52
SEP 26- OCT 03	1400	1.42	2.508	102	8	8	4.64	5.01

312825083315950 TIFTON-AGRICULTURAL RESEARCH SERVICE STATION NEAR TIFTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	CALCIUM DIS-SOLVED (MG/L	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CHLO-SULFATE DIS-SOLVED (MG/L AS SO4)	NITRO-GEN, RIDE, DIS-SOLVED (MG/L AS CL)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	PHOS-AMMONIA DIS-SOLVED (MG/L AS NH4)	PHATE, DIS-SOLVED (MG/L AS PO4)
OCT											
04-11	0.45	0.19	0.86	49	0.3	0.06	8.0	1.0	4.5	0.46	0.50
11-18	0.04	<0.00	0.05	--	--	<0.00	0.03	0.09	0.13	0.03	<0.02
18-25	0.43	0.27	1.9	64	0.6	0.10	5.8	3.2	4.1	0.34	0.13
OCT 25-											
NOV 01	0.24	0.10	0.64	56	0.3	0.05	3.3	1.1	2.1	0.39	0.02
NOV											
01-08	0.05	0.02	0.18	57	0.2	0.06	0.65	0.32	0.20	0.08	<0.02
08-15	--	--	--	--	--	--	--	--	--	--	--
15-22	0.09	0.10	0.95	75	0.5	0.04	0.59	1.5	0.66	<0.02	<0.02
22-29	0.19	0.12	0.98	67	0.4	0.07	2.8	1.7	1.3	0.20	<0.02
NOV 29-											
DEC 06	--	--	--	--	--	--	--	--	--	--	--
DEC											
06-13	0.04	0.02	0.16	65	0.2	0.00	1.9	0.35	0.73	0.02	<0.02
13-20	0.09	0.04	0.23	55	0.2	0.01	3.1	0.44	1.8	0.31	<0.02
20-27	--	--	--	--	--	--	--	--	--	--	--

312825083315950 TIFTON-AGRICULTURAL RESEARCH SERVICE STATION NEAR TIFTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	CALCIUM DIS-SOLVED (MG/L	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CHLO- SULFATE DIS-SOLVED (MG/L AS SO4)	NITRO-GEN, RIDE, DIS-SOLVED (MG/L AS CL)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	PHOS- AMMONIA DIS-SOLVED (MG/L AS NH4)	PHATE, DIS-SOLVED (MG/L AS PO4)
DEC 27 1988- JAN 03 1989	0.06	0.05	0.37	69	0.3	0.02	0.62	0.64	0.60	0.05	<0.02
JAN 03-10	0.27	0.24	2.2	73	0.7	0.08	3.9	3.4	2.7	<0.09	0.28
JAN 10-17	0.06	0.06	0.51	70	0.3	0.04	1.3	0.81	0.88	0.21	<0.02
17-24	--	--	--	--	--	--	--	--	--	--	--
24-31	0.03	0.02	0.18	68	0.2	0.01	0.44	0.26	0.28	0.09	<0.02
JAN 31- FEB 07	0.16	0.11	0.92	68	0.4	0.05	1.4	1.5	0.83	0.35	<0.02
07-14	0.16	0.11	0.71	63	0.3	0.06	2.9	0.99	0.77	<0.11	<0.11
14-21	0.05	0.03	0.22	64	0.2	0.02	0.84	0.37	0.47	0.10	<0.02
FEB 21-28	0.05	0.03	0.22	64	0.2	0.02	0.69	0.39	0.41	0.04	<0.02
FEB 28- MAR 07	0.12	0.05	0.42	63	0.3	0.02	1.4	0.75	0.83	0.04	<0.02
MAR 07-14	0.55	<0.09	0.40	--	--	<0.09	1.2	<0.86	<0.86	<0.58	<0.58
14-21	--	--	--	--	--	--	--	--	--	--	--
21-28	0.07	0.03	0.21	60	0.2	0.02	1.2	0.36	0.74	0.19	<0.02
MAR 28- APR 04	0.16	0.09	0.72	66	0.4	0.03	0.73	1.2	0.55	<0.02	<0.02
APR 04-11	0.14	0.04	0.32	55	0.2	0.03	1.2	0.57	0.84	0.18	<0.02
11-18	0.04	0.01	0.14	63	0.2	0.01	0.78	0.19	0.60	0.82	<0.02
18-25	--	--	--	--	--	--	--	--	--	--	--
APR 25- MAY 02	0.10	0.03	0.14	43	0.1	0.03	0.99	0.23	0.60	0.18	<0.02
MAY 02-09	0.27	0.10	0.69	56	0.3	0.06	3.8	0.92	2.1	0.53	<0.02
09-16	0.11	0.03	0.19	48	0.1	0.04	0.91	0.31	0.71	0.20	<0.02
16-23	0.98	0.21	1.3	44	0.3	0.28	5.5	1.7	5.8	1.6	<0.02
23-30	0.30	0.12	0.80	55	0.3	0.17	1.3	0.57	3.2	0.13	0.51
MAY 30- JUN 06	0.10	0.08	0.32	50	0.2	0.10	0.64	0.54	0.53	0.14	<0.02
JUN 06-13	0.06	0.04	0.27	62	0.2	0.03	0.51	0.48	0.48	0.11	<0.02
13-20	0.24	0.07	0.31	41	0.1	0.08	0.98	0.54	0.80	0.19	<0.02
20-27	0.10	0.03	0.13	40	0.1	0.04	1.5	0.23	1.1	0.24	<0.02
JUN 27- JUL 04	0.04	0.02	0.05	38	0.1	0.02	0.87	0.12	0.57	0.13	<0.02
JUL 04-11	0.21	0.04	0.23	40	0.1	0.04	0.60	0.41	0.67	0.35	<0.02
JUL 11-18	0.07	0.03	0.08	34	0.1	0.05	1.0	0.15	0.86	0.11	<0.02
18-25	0.05	0.03	0.15	50	0.1	0.05	0.56	0.28	0.96	0.10	<0.02
JUL 25- AUG 01	0.10	0.03	0.28	58	0.2	0.04	2.0	0.35	2.1	0.79	0.37
AUG 01-08	0.19	0.05	0.21	39	0.1	0.04	2.1	0.36	1.0	0.14	<0.02
08-15	0.09	0.02	0.08	35	0.1	0.02	2.2	0.18	1.7	0.18	<0.02
15-22	0.28	0.07	0.37	43	0.2	0.07	2.7	0.73	1.5	0.31	<0.02
22-29	0.10	0.03	0.13	41	0.1	0.04	2.1	0.22	2.2	0.15	<0.02
AUG 29- SEP 05	0.02	0.01	0.04	41	0.1	0.02	1.4	0.09	1.2	0.13	<0.02
SEP 05-12	0.09	0.12	1.6	81	0.8	0.09	1.4	2.6	1.8	0.22	0.26
12-19	0.30	0.11	0.87	57	0.3	0.17	2.0	0.98	1.8	0.10	0.13
19-26	0.17	0.37	0.57	25	0.2	1.4	2.0	0.99	1.0	0.66	0.03
SEP 26- OCT 03	0.03	0.04	0.32	73	0.3	0.02	0.68	0.58	0.41	0.08	<0.02

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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